REVIEW OF INTERNATIONAL BROADCASTING

GLENN HAUSER'S DX DAILY

STARTING FEBRUARY 1

WEEKNIGHTS 10 pm C S T

TUE-SAT 0400-0415 U T C

RADIO MIAMI INTERNATIONAL

VIA W R N O, 7 3 9 5 kHz

YOUR SUPPORT IS NEEDED!!

SEE PAGE 39, THIS ISSUE

tune in

Issue 144 $2½ ISSN 0149-9971 Edited & Published by Glenn Hauser

A L B A N I A (Harry Riddell, Rochester NY, Jan. 13) R. Tirana's English at 0230 on 9580 is once again well heard after several months of co-channel interference. I've been following Tirana for 20 years and for the first time on UTC Sunday Jan. 10, the announcer was not a native Albanian; sounded like a relatively young male who definitely grew up in the U.S. Phrasing and pronouncement of words were definitely American. Back to the Albanian announcers the next night. Possibly Trans World Radio personnel? gh: BBCM reported many of the old staff were purged, and Reuters had started training new people. Also, Tirana extended its Albanian service to Kosovo, 0500-0730 on 7156, 5975 or 5980, and 0830-1100 gmt on 6145, 1395; frequencies vary. (Hendel:) New RT IS on 9580 at 0227!

(Norm Blakely, St Catharines Ont) Originally Yugoslavia on 9580 did English at 0100, Albania came on at 0130 with English, Yugo at 02, Alb at 0230; in early December, I started to notice Yugo stayed on with 0127 interval signal, into presumed Serbian atop Tirana; then around mid-December, Tirana decided to do the same thing, stay on at 0200 with Albanian. This little game continues as of Jan. 12; Prague only seems to interfere rarely at 01 on 9580. On an auroral date, Jan. 1, Gabon in French was heard instead. So Yugo is best at 01 with no Tirana; Tirana best at 0230 with no Yugo. Y U G O S L A V I A

A U S T R A L I A (gh) RA COMMUNICATOR, the non-DX program, went on another summer vacation, missing Tue. Jan. 12 at 1130 and 1530 on 9580 and often better 11800--instead, repeat of a special report on the situation in Burma, very well done. But itself repeated following Tue. 19th...

A U S T R I A (gh) on Jan. 10, AUSTRIAN SW PANORAMA was a repeat of the previous week, No. 1188. On Jan. 14, J. Marks mentioned on RN MEDIA NETOWRK that ORF had announced Jan. 12 that ASWP had been discontinued with the retirement of David Hermges, no replacement editor found. Mailbag segment Jan. 16 confirmed ASWP discontinued, replaced on Sunday times with COFFEETABLE, and this was the case Jan. 17-18 at 2330 and 0330 on 9870--with Hermges, old tape I suppose. If this is permanent, we shall greatly miss listening to and contributing to ASWP and wish David all the best in retirement!

A Z E R B A I J A N (BBCM Jan. 1) New European service in English from Ajerbaijani radio announces as "Radio Dada Gorgud, the Voice of Azerbaijan". Dada Gorgud is a Turkic epic hero, famous in Azerbaijan history. At 1700-1800 on 6175, poor in UK due to co-channel France.

B E L G I U M (gh) R. Vlaanderen Internationaal RADIO WORLD announced Jan.16 that from Jan. 18 the American service in French, Spanish and English at 2230-0100 would shift to 7370 NAm, 9930 SAm, replacing 9930 and 13655 respectively. Hope that helps, as neither audible here for weeks, forcing us to hope for high MUFs during the Mon.-Sat. 1400 on 21810. (via Gigi Lytle, TX:) Sept.-Mar. RVI program guide says BRUSSELS CALLING is made and presented by: Liz Sanderson, Deanne Lehman, Frans Vossen, Paul Rans, Steve Smith, Colin Clapson, Stephen Windross. The Mon.-Thu. 1900, 2200 programs are repeated next UTC day 0030, 0730, 1000, 1400: after NEWS, PRESS REVIEW and BELGIUM TODAY: Mon-Tue., FOCUS ON EUROPE, SPORTS. Tue.-Wed., AROUND THE ARTS, P O BOX 26. Wed.-Thu., LIVING IN BELGIUM, GREEN SOCIETY. Thu.-Fri., ECONOMICS, NORTH-SOUTH. Fri. 19-22-2430, AROUND THE ARTS, P O BOX 26 repeats. ALL Saturday shows 0730 thru 2430: NEWS, PRESS REVIEW, RADIO WORLD, TOURISM, RECORD OF THE WEEK, P O BOX 26. All Sunday, no 1000 and 1230 not 1400: NEWS, P O BOX 26, MUSIC FROM FLANDERS. Monday 0730-10-1400: NEWS, PRESS REVIEW, RADIO WORLD, TOURISM IN FLANDERS (Actually Sat. 14-1425 ends after TOURISM...)

C A N A D A (Peter James, Portland ME) I'd like to nominate the 1993 Award for Incompetence in Frequency Management to Radio Canada. They have an obvious neurotic hang-up about using out-of-band frequencies, so what if people can hear you. When they recently changed at 2300 from 9755 and 5960 to 11730 whereby they are virtually unlistenable, they simply confirm this fact. For SUNDAY MORNING, 11955 is co-channel with Nederlands. And so on; I believe that their fq mgr is some bureaucrat who is virtually oblivious to HF radio. What is almost as bad is their not using some of CBC's best programming, i.e. IDEAS and Peter Gzowski's program.

(Bill Westenhaver, Montreal, Dec. 17) Changes in RCI to Canadian UN peacekeeping troops; about the time Cyprus and Somalia were added to Yugoslavia as targets, discontinued audio feeds from Lahr, and began producing it all from RCI--there is a small CFN office on the RCI premises. Audio quality from Lahr wasn't good; content was very local in scope; duplicated some news from RCI such as sports scores. English at 2000 presenhed by Bob Girolami, ex-familiar local CBC, and French 2015 by Michel Marmen, freelancer, ex-Lahr. gh: While it lasted, some got QSLs for this direct from Lahr, Germany CFN.

(Diane Mauer, WI) Ian McFarland writes that he's returning to Canada in April. Due to budget problems at RCI he took early retirement allowing someone else to avoid being laid off. But back in Canada he will be taking any part time work he can get there, so may still hear him on RCI from time to time. It will be nice having at least one familiar voice on RCI. Maybe he could get SWL DIGEST going again, like Larry Wayne retired from DW and kept doing RANDOM SELECTION.

(via Tim Flannery) I almost missed it, but Jan. CBC Radio Guide shows something else instead of OPEN HOUSE the weekends of Jan. 16-23-30, Sat. 8:11 am on CBC Stereo, Sun. 7:08 pm on CBC Radio--VOICES OF THE FIRST NATIONS: THE PRAIRIES, native music and poetry. I caught the first one Mon. Jan. 18 at 1312 on 9635, 11855, 17820, saying the OPEN HOUSE would resume in Feb. Other RCI times for this are: Sat. 2130, 2200, Sun. 1330, 2030, Mon. 0100, Wed. 0630. IDEAS, 9:05 pm local, last week in Jan.--

Mon. 25, The Global Spread of Nuclear Weapons. Tue. 26, John Dewey: The Pragmatist's Pragmatist. Wed.-Thu.-Fri. 27-28-29, Out of Work.

(via Mike Cooper, Atlanta) Globe & Mail, Dec. 5 by Adele Freedman reported CBC found it necessary to redesign their 'exploding pizza' logo, causing some controversy over costs and copyright. The slit at the right which makes a C out of the circles has been removed, black and white reversed, and fewer segments making it flat and ugly.

(Salmon Arm Observer, Nov. 18 via Warren Canney, Jan. DX Ontario) Radio for Peace International, C.R. plans to put its second outlet here, on Canadian campus of World Peace University, primarily to serve Asia and Pacific. gh: I quoted this on WOR, and on RFPI Mailbag Jan. 15, James Latham was surprised I had this info which had just become known to RFPI board members meeting there. Confirmed plans: studios and offices now being acquired, funding being obtained. Start program production in 3 months, may take 10-12 months for licensing, 15-18 months to get on the air. Think he said it would be 50 kW. Several other sites are foreseen. This one should have a lot of indigenous Canadian programming, but also a lot of the same shows on RFPI-CR. Whole system under EarthCom--Earth Communications, of World Peace University. BTW, Salmon Arm is inland, not on coastal fjord--British Columbia.

No connexion with a proposed private 100 kW SW relay perhaps at an abandoned coast guard station, hoping to get a donated/used transmitter. Investors are being sought; further info from Mr. Hackett, West Coast Broadcasting Corp., P O Box 395, 720 Sixth St., New Westminster, BC V3L 3C5, Canada; phone 604-521-6286.

C H I N A (via Gigi Lytle, TX) R. Beijing (sic) sends a sheet listing 10 questions about Chinese history for its 45th anniversary, competition for prizes, deadline end of October; whole series of programs to be rebroadcast in July. Was this for 1992 or 1993? Received in January. (BBCM:) CRI reported Dec. 30 it had received a record more than 320 kiloletters from overseas listeners, from 170+ countries; previous high was 286K in 1965 before Cultural Revolution.

C O S T A R I C A (RFPI Jan-Feb-Mar program guide) Daily 16 FIRE-Spanish, 17 FIRE-English. Mon 18 PEACE FORUM, 1830 RFPI REPORTS & UN, 19 STEPPIN' OUT OF /OUTTA?/ BABYLON, 1930 VOICES OF OUR WORLD, 20 ALTERNATIVE RADIO, 21 UN, 2115 RFPI RPTS & UN NEWS, 2130 PEACE FORUM, 2200 PEACE TALKS-Bahai, 2230 NEW DIMENSIONS, 2330 UNESCO, 2345 RFPI RPTS & UN NEWS same thru Fri. Tue 18 A-I REPORTS or CFRU CASSETTE CULTURE, 1830 RFPI RPTS & ALONG THE COLOR LINE, 19 WOR, 1930 RFPI'S MAILBAG, 20 SEEING BEYOND TALK RADIO, 21 UNESCO, 2115 RFPI RPTS & UN NEWS same thru Fri, 2130 WINGS, 22 PEACE FORUM, 23 German pgms, 2330 DIALOGUE-UPAZ NEWS. Wed 18 SECOND OPINION, 1830 RFPI RPTS & UNESCO, 19 CHANGEMAKERS, 1930 NEW DIMENSIONS, 2030 VOICES OF OUR WORLD--Maryknoll, 21 UN, 2130 VVRN, 22 SOUND CURRENTS OF THE EARTH, 23 COMMON GROUND, 2330 UNFPA/FAO. Thu 18 LIVING ENRICHMENT CENTER, 1830 RFPI RPTS & NEUMAIER REPORT, 19 ALTERNATIVE RADIO, 20 UNESCO, 2030 WINGS, 2100 DIALOGUE, 2130 STEPPIN' OUT, 22 FOOD FOR THE THOUGHTFUL, 2230 THE PRACTICE OF PEACEMAKING, 23 PEACE FORUM, 2330 UN. Fri 18 COMMON GROUND, 1830 RFPI RPTS, 19 NEW DIMENSIONS, 20 WOR, 2030 RFPI'S MAILBAG, 21 UN, 2130 OUTLAW FOR PEACE, 22 PEACE FORUM, 2230 SECOND OPINION, 2300 German, 2330 WORLD CITIZENS WEEKLY COMMENTARY.

Sat 18 WORLD OF RADIO, 1830 RFPI RPTS, 19 PEACE FORUM, 1930 RFPI'S MAILBAG, 20 RADYO NEG MAWON--Creole, 21 WORLD CITIZEN'S HOUR, 22 FROM THE ATOM TO THE UNIVERSE, 2230 VIETNAM VETS RADIO NETWORK, 2300 RED CROSS or CFRU, 2330 UN WORLD IN REVIEW, 2345 RFPI RPTS. Sun 18 FOOD FOR THE THOUGHTFUL, 1830 RFPI RPTS, UN, 19 NEW DIMENSIONS, 20 LIVING ENRICHMENT CENTER, 2030 SCOTE, 2130 WORLD GOODWILL FORUM, 2230 CHANGEMAKERS, 23 WORLD OF RADIO, 2330 UN WORLD IN REVIEW, 2345 RFPI REPORTS. Then everything repeasts 8 and 16 hours later, weekdays until 1400 when Spanish begins. EARTH & SKY during RFPI RPTS.

gh: Jan. 15 MAILBAG said new 30 kW transmitter 99% complete, perhaps testing in Feb; working on cubical quad antenna; hooking up power cable. However, old xmtr on 7385 is down after many hours usage. Check 7375, 13630-USB, 15030. See also CANADA above!

(John Norfolk, OKC OK) The 1993 PWBR mentions WORLD OF RADIO--not much, but there, under 1800 & 2300, RFPI as their "Sunday communications program", but as far as I can tell does not mention WOR on WRNO or WWCR. gh: Never has, deliberate oversight, tnx for crumbs.

(Outlaw for Peace, Jan. 4 press release via David Alpert, NY) OFP seeks 27-min shows to be broadcast over RFPI, and CAAMA, Alice Springs on SW. Artists, independent record producers invited to submit demo radio shows for possible worldwide bc. Experimental radio formats and styles, music, drama, comedy will all be considered. Contact Bob Wishoff, 512-264-2922 or at 805 Paisley #6, Spicewood TX 78669.

E C U A D O R (John Norfolk, OKC OK) For many moons, HCJB 9745 0030-0430 plagued with variable high-pitched whine in background, and that xmtr tends to go off for a minute or two several times during any given xmsn. On 21455 USB I heard MUSIC DEL ECUADOR in progress Fri Dec 11 around 2250; on Dec 12, DX PARTY LINE at 2039-2130 & 2209-2300, the goofy UNSHACKLED at 2330 with episode 2191(?); Dec 13 SALUDOS AMIGOS at 2209,(and assumed earlier 2039). 21455 suffers CCI during part of our mornings, before 1500, but HCJB usually stronger. gh: That's almost-24-hour service in EG, even when other fqs including 17490-SSB are not. I usually get DXPL Sat 1909 on 21455 anyway. Jan-Feb program notes include: HCJB Today, UTC Mon 0200, 0700, 0930: Feb. 8, Bible correspondence courses, role of maids & gardeners; Feb 15, mission field romances, AIDS, Conjunto HC; Feb 22, Elkhart IN engineering center.

On Sat. Feb. 13, MUSICAL MAILBAG crew does an hour-long open line call-in, 011-593-2-241-560. Apparently rotating monthly call-ins replace the weekly ones they had for a while on Monday nights. The block program guide for Sept-Feb shows MUSICAL MAILBAG for half an hour Sat 0700, 0830, 2130, UTC Sun 0330, 0600. I suspect only a couple of these times would be expanded to an hour for call-in. Tnx to Diane Mauer for the sked.

F R A N C E (Scott Edwards, Los Alamitos, CA, 12 Jan) RFI's 'three minutes of tape-delayed news in English' audible 24 hours by telephoning Washington DC, 1-202-944-6075, is apparently now defunct. However, your toll call is not defunct as a tape message states: "Your party is absent, temporarily," so beware PWBR 93 pg. 217.

G E R M A N Y (Bob Colon, West Allis WI, Oct. 24) DW now has a toll free number in US to take messages: 1-800-393-3248. I tried but got Not in service message. gh Tried Nov. 2 at 2245 and it worked, but did they send the skeds I requested? Of course not, so keep them coming, Diane!

(DW Jan-Feb TUNE IN via Mauer) Some DW topics, scheduling if any on N. American service usually not specified: Jan. 31, ARTS ON THE AIR, on Cezanne, the Shy Revolutionary. Jan. 27, LIVING IN GERMANY--Eastern Germany, the Baby Gap. Feb. 23, INSIGHT--In Search of Survival of indigenous peoples--that should be UTC Feb. 24 at 0330 to NAm. Feb. 13, PEOPLE & PLACES, From Cloth-guild to Concert-hall, on the Gewandhausorchester, Leipzig. Jan 30, DEVELOPMENT FORUM--test market for 3rd World Food. Feb 19 & 20 0300, ECONOMIC NOTEBOOK--Welcome to 1993--Europe's single market. Feb. 10-11-13, LIVING IN GERMANY--Gateway to the East, Frankfurt/Oder. In German, the 4th hour Jan. 31 MUSIKBOUTIQUE runs Kismet, music by Borodin.

H U N G A R Y (via Mike Wager, UK) Budapest International Jan-Feb-Mar, claims 15220 11910 9835 NAm 0300-0400, but 15220 normally used, and useful summer only; 2200-2300 on 11910 9835 6110. Topics:

MonJan 25, CASABLANCA--music of Rozsa. Tue 26, DIVERSITY IN UNITY--conference of Hungarian Democratic Forum, main party in coalition. Wed 27, HIT LIST, DX WORLD. Thu 28, MONEY MONTHLY, COMING TO HUNGARY? Fri 29, GUILT pt 4, DX NEWS. Sat 30, MONEY, CASABLANCA, DIVERSITY, DX WORLD. Sun 31, GUILT Pt 4, HIT LIST, COMING TO HUNGARY?

Feb: Mon 1, SHAKE, RATTLE & ROLL--pop from 1953 on. Thu 4, EYES FRONT--new influences in military. Fri 5, JOURNEY ROUND MY SKULL--from Frigyes Karinthy novel, pt 1. Sat 6, EYES FRONT, SHAKE. Sun 7, SKULL, MELODY, COMING? Mon 8, ON THE BEAT from 1963. Tue 9, EXPATS. Thu 11, FOCUS ON FILM--1993 Budapest Festival. Fri 12, SKULL pt 2. Sat 13, FILM, BEAT, EXPATS. Sun 14, SKULL--2. Tue 15 /sic, either Mon 15 or Tue 16/, NO CASH NO GAMES--football profit sharing. Wed 17, CLASSICS-Menuhins open National Phil season. Thu 18, MOSCOW FILE. Fri 19, SKULL-3. Sat 20, MOSCOW, SINGING SONG WRITERS, NO CASH. Sun 17, SKULL-3, CLASSICS. Mon 22, RAP & VIDEO AGE. Thu 25, MONEY MONTHLY. Fri 26, SKULL-4. Sat 27, MONEY, RAP, Sun 28 SKULL-4.

March: Mon 1, ROCK INTO THE FUTURE. Tue 2, WHAT'S WITH THE GREENS? Wed 3, DOWN MELODY LANE. Thu 4, Facing the Faiths--Buddhists; PARLIAMENTARY WANNABEES--Republic Party. Sat 6, FAITHS, ROCK, GREENS. Sun 7, MELODY, WANNABEES. Mon 8, MUSIC AND THE BIRDS. Tue 9, ACT AGAINST HATE. Thu 11, CONDITIONS OF MEMBERSHIP--European code of behaviour; PARLIAMENTARY WANNABEES--Feminists. Fri 12, FOCUS ON FILM--poet of the cinema. Sat 13, MEMBERSHIP, BIRDS, ACT AGAINST HATE. Sun 14, FILM, WANNABEES. Mon 15, GALA OPENING--Budapest Spring Festival. Wed 17, CLASSICAL CANADIANS. Thu 18, BUILDING FOR EXPO 96, WANNABEES--Social Democratics. Fri 19, DRAMA DEPT. Sat 20, EXPO, GALA. Sun 21, DRAMA, CANADIANS, WANNABEES. Mon 22, THE FESTIVAL ORCHESTRA. Tue 23, RIGHTS OF CHILDREN. Thu 25, MONEY, WANNABEES-Independents. Fri 26, THRU THE POETS. Sat 27, MONEY, FESTIVAL, CHILDREN. Sun 28, POETS, WANNABEES. Mon 29, CANADIAN CONNEXION--management in business, arts, film. Tue 30, FACING THE FAITHS --Muslims. Wed 31, DAY AT THE DANCE HOUSE. # Wish we could hear them (better)

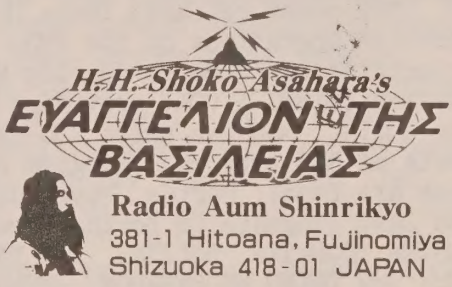
I N D I A (India Calling, Dec., via Scott Edwards) AIR 2045-2230 broadcast on 15265, 11715, 11620, 9950, 9910, 7412--items with slashes rotate week to week, presumably similar pattern in Feb and beyond. Daily: 2045 PRESS REVIEW, 2100 & 2200 NEWS, 2105 & 2210 COMMENTARY, 2225 FILM TUNE.

Sat 2050 REGIONAL DEVOTIONAL MUSIC, 2111 CLASSICAL MUSIC, 2120 FOR YOUTH/ON INDIAN CLASSICS/FROM THE ARCHIVES/QUIZ TIME, 2130 OLD FILM SONGS, 2215 MAINLY FOR TOURISTS/INDIAN CINEMA. Sun 2050 INSTRUMENTAL MUSIC, 2111 REGIONAL FILM SONGS, 2120 SPORTS ROUNDUP/feature/FILM STORY/DISCUSSION, 2130 KARNATAK VOCAL MUSIC, 2215 WOMEN'S WORLD. Mon 2050 FOLK SONGS, 2111 CLASSICAL VOCAL MUSIC, 2120 FAITHFULLY YOURS--mailbag, 2130 DXERS CORNER 2-weekly, 2145 FILM SONGS, 2215 RADIO NEWSREEL. Tue 2050 INSTRUMENTAL MUSIC, 2111 KARNATAK VOCAL MUSIC, 2120 CULTURAL TALK, 2130 FILM SONGS, 2215 PERSONS PLACES & THINGS/OUR GUEST. Wed 2050 LIGHT MUSIC, 2111 INSTRUMENTAL MUSIC, 2120 RADIO NEWSREEL, 2130 FILM SONGS, 2145 FILM SONGS, 2215 BOOK REVIEW/WINDOW ON SCIENCE/TIMES & LIVES/SCIENCE MAGAZINE/INDIA & THE WORLD. Thu 2050 CLASSICAL VOCAL MUSIC, 2111 INSTRUMENTAL MUSIC, 2120 PANORAMA OF PROGRESS, 2130 CLASSICAL HALF HOUR, 2215 GENERAL TALK. Fri 2050 FOLK SONGS, 2111 ORCHESTRAL MUSIC, 2120 FOCUS/HORIZON--literary magazine/INDIAN MUSIC FACETS/HORIZON, 2140 FILM SONGS, 2215 RADIO NEWSREEL. Other transmissions follow similar patterns.

I R A Q (Norm Blakely, Ont) Baghdad, R. Iraq Int'l is very inconsistent on 11860--English noted 12/20 0400-0411, 12/22 0357-0408, 12/23 0359-0414, 1/1 0405-0417, 1/5 0400-0411, 1/11 0405-0422, and back on 11/28 0403-0417. gh: Arthur Cushen says also on 15340; 11860 our best chance for English.

BBC Monitoring schedule released 18 Dec 92 says this broadcast to Chicago in Arabic & English on 11860 runs 0215-0515. Arabic to S America at 0015-0315 on 15180 with irregular English 0044-0056; European service in Arabic on 15210 from 1900, English 2200-2345, then news in Spanish, French, German until 0000. Also announced but not confirmed is English to Asia 1400-1700 on 13680. On NY Eve only, Bob Padula in Victoria heard 13680 in English at 2000-2100 with greetings to listeners. Clandestines recently monitored by BBCM: V of the People of Kurdistan, Sulaymaniyah, of the Patriotic Union of Kurdistan, led by Jalal Talabani; has carried bcs from V of Iraq-Iraqi Broadcasting Corp since mid-December /I assume this IBC has nothing to do with Saddam's govt? -gh/ at 0540-0600 & 1630-1650 within longer transmissions at 0500-0700, 1600-1800 on 5880 (varying 5845-5880) and 4085v; also has irregular Turkem bc on same at 1800-1820; other bcs in Kurdish & Arabic. Fqs vary highly, previously around 15060, 7270, 3930-3960. Then there's News Centre of Free Iraq, in Arabic 2200-2353 on 11695, hostile to Saddam Husayn, maybe connected with V of the Iraqi People. On 15620, Jan 10 at *1629-1700, Brian Alexander in PA heard V of Human Rights & Freedom of Iraq, IS, multilingual ID, 1630 anthem, believed to be ex-Iran's Flag of Freedom R, not hrd at 0330, 0645.

J A P A N (non) (via Diane Mauer & Gigi Lytle) Replies received from Radio Aum Shinrikyo (or as Al Quaglieri puts it, Aum Stinko, in an hilarious transcript of gobbledygook), still on multiple Moscow frequencies daily 0430 & 2030, with price list of nine books including Declaring Myself the Christ -- hey, why not??



K O R E A S O U T H (via Gigi Lytle, TX) R. Korea program sked effective April 6, 1992, received in October, and presumably until next April; 1-hour broadcasts in minutes after the hour: Daily, 0-15 NEWS. Mon-Sat 15-20 NEWS COMMENTARY, Mon-Fri 55-60 NEWS HIGHLIGHTS IN REVIEW. SEOUL CALLING airs Mon & Tue 20-35, Wed & Thu at 20-30. Remaining features are: Sun 15-35 ECHOES OF KOREAN MUSIC, 35-60 SHORTWAVE FEEDBACK (including Wm Matthews' DX news, talks). Mon & Tue 35-40 SPORTS CORNER. Mon 40-55 TALES FROM KOREA'S PAST. Tue 40-55 KOREAN CULTURAL VARIETY. Wed 30-40 KOREAN LITERARY CORNER, 40-55 PULSE OF KOREA. Thu 30-40 ORIGIN OF KOREAN SCIENCE, 40-55 FORWARD TO REUNIFICATION. Fri 20-40 LET'S SING TOGETHER, 40-55 LET'S LEARN KOREAN. Sat 20-35 SITES & SOUNDS, 35-60 FROM US TO YOU. These start at 08, 11, 1215, 14, 16, 19, 2145, 2430, see sked pages.

The RCI relay 1130-1200 on 9650: Mon-Sat 1130-1140 NEWS. Sun 1130-1140 WEEKLY NEWS IN REVIEW (actually usually over by 1137 or 1138), then SHORTWAVE FEEDBACK. Mon & Tue 1140-1200 SEOUL CALLING. Wed & Thu 1140-1145 MUSIC BOX. Wed 1145 PULSE OF KOREA. Thu 1145 FORWARD TO REUNIFICATION. Fri 1140 LET'S SING TOGETHER. Sat 1140 FROM US TO YOU.

L U X E M B O U R G (Norbert Kreitel, Bonn, Germany) A legend died: After so many years of broadcasting "The World's Biggest Commercial Radio Station", as they called themselves, ceased its English transmission on SW and satellite Dec. 30. MW transmissions of the traditional RTL "208" stopped already in 1991 as they decided to bc on satellite only. The SW fq of 15350 was never mentioned from that moment on. But for the last transmission the old and legendary "208" fq, 1440 kHz was reactivated. They started that fq in the early 30s. I stayed with stn via my satellite dish for the last 2½ hours and here are some major facts: 2140, The history of RTL "208" with old jingles and announcements from the past to satellite. 2326, Steve Williams with a last speech to listeners, songs "At the End of the Day" and "Music Was My First Love". 2324, GM John Catlett spoke to audience. 2356, Mike Hollis thanked all staff and listeners for support. 0000, end of 208 MW, SW & satellite transmission, beginning of relay of RTL's German service "RTL Radio - Der Oldie-Sender", satellite: ASTRA 1A 19.2 degs E, tr 13, 7.38/7.56 MHz. Astra 1B, tr 21 on same carried German service of RTL for more than one year. These audio fqs are now switched off. Could be replaced by RTL 104.5, the service for greater Berlin. RTL Radio in German is also still available on MW 1440. SW 6090 carrying RTL German all those years now relays French daytimes, nights off. RTL French also on LW 236 and satellite Telecom 2B, 5 degs W, tr K3, audio 6.85/8.20 MHz. Can't say what happened to 15350, presently inaudible at my home.

N A M I B I A (Tim J Johnson, Galesburg, IL) Heard station in English on 4965 at 0435 UTC Jan 6, news mentioning Somali peace talks, tanker wreck in Shetlands. Just before the hour played song by Bob Marley "Chances Are". Many mentions of times before 7:00. Very surprised at 0500 ID as "NBC," Windhoek, news as "NBC News". How long has this frequency been in use? Not published lately. gh: I see it is missing from 93 WRTH & PWBR, but I recall it used a few years ago from here, also by RSA DS & ES.

N E W Z E A L A N D (gh) via MT we see a new RNZI program guide effective until 21 March when DST ends; without checking every single line, there seems to be very little change from the version in DXLD-38. RNZI Mailbox returned UTC Mon Jan 18 at 0430-0500, bi-weekly, saying March would bring a new but unspecified 9 MHz band fq--hope not in the 07-12 period when 9700 is just fine. After it, plugged a new series Tues 0505 on 15120, PRESENTING THE PACIFIC, visiting capitals of these islands: Niue, Fiji, Solomons, Tonga, Kiribati, W Samoa; I checked Jan 19 but the previous LAST OF THE WORLD WARS series was still on; maybe PACIFIC starts Jan 26?? They didn't say! An earlier M'BOX revealed that THE GOON SHOW is on RNZI Thu 0706 on 9700. Confirmed, playing CDs of it, not on BBC any more now. Some weeks ago, Rudi Hill promised to resume AROUND THE WORLD on Tue Jan 26, but one never knows whe-

ther this will appear at 0900 or 0930, so if timer-taping, catch the full hour; repeated UTC Fri 0430 on 15120, and thence 4-weekly.

P A P U A N E W G U I N E A (non) (via Bill Westenhaver, PQ) Papua Niugini Sevis Progrem Gaid of R Australia, received in Oct, at 0755-1058 on 7240 9710 11720 6080. Yupela iken harem RA long ol dispela mak long Redio. Triam olgeta mak. Days of week are Mande, Tunde, Trinde, Fonde, Fraide, Sarere, Sande. Pgms are daily, u.o.s. 0755 Tun Sig. 0800 TS-Open Pointers. 0805 M&F SPORTS, other days SOUNDS OF R A. 0830 NEWS(E). 0840 Mon SMOL BISNIS, Tue FOCUS, Wed & Fri SOUNDS OF RA, Thu SUNRISE(P) Sat SMOL BISNIS rep, Sun SUNRISE(P) rep. 0900 Mon NIUPELA KASET, Tue AUSTRALIANA, Wed Au COUNTRY STYLE, Thu REGGAE, Fri HIT PARADE, Sat NIUPELA KASET rep, Sun REGGAE rep. 0930 NEWS(P). 0940 M/W/F INSAET LONG NIUS, Tue SOUNDS OF RA, Thu TUMBUNA STORI, Sat TUMBUNA STORI rep, Sun BILIP. 1000 Mon HIT PARADE rep, Tue & Sat LAIK BILONG WANWAN, Wed KATLUS, Thu KANTRI SINGSING, Fri YOUR SAY, Sun ASTE YET. 1030 NEWS(P). 1040 YUMI YET. 1057 CLOSING ANMT, 1058 CLOSE.

P H I L I P P I N E S (via Scott Edwards, CA, and Alan Roe, UK) Philippine Broadcasting Service, Nov 20, 1992 press release: Press Undersecretary Ramy S Diez announced plans to undertake major improvements in operations of the PBS, following his designation as Officer-in-Charge last Nov 1. One of the priorities would be to develop Radyo Pilipinas into an extensive international broadcasting network similar to BBC & VOA, providing news and entertainment to both Filipino and foreign audiences all over the world. Now has three 250-kW transmitters to Asia, ME, Africa, Europe, Australia, Pacific, some parts of N&S America. Program Schedule--Filipino Service 1730-1930 on 15190, 17840, 21455. Days of week are Lunes, Martes, Miyerkules, Huwebes, Biyernes, Sabado, Linggo. Tue thru Fri, BALITA is first and last (cognate to Berita, news in Indonesian). In between or otherwise: Mon SARI-SARING BALITA'T MUSIKA, UGNAYAN, BALITA. Tue TAKBO NG PANAHON, ULAT PINOY. Wed TAKBO NG PANAHON, HALINA SA PILIPINAS. Thu TAKBO NG PANAHON, SHOWBIZ PILIPINAS. Fri TAKBO NG PANAHON, KUMUSTA KA, KAIBIGAN? Sat BALITA AT IBA PA, ANG REPORTER. Sun KULTURA NG BAYAN, MUSIKANG PINOY.

English 0230-0330 on 17760 17840 21580: Mon-Fri TODAY IN HISTORY/MUSICAL NOTES first, VOICE OF DEMOCRACY second, and NEWS last. In between or otherwise: Mon SAVE THE EARTH, UPDATES. Tue PROGRESSIO PILIPINO, THE PHILIPPINES TODAY. Wed THE CHANGING WORLD, LISTENERS AND FRIENDS. Thu BUSINESS TALK. Fri ACHIEVERS. Sat DIALOGUE WITH THE PRESIDENT. Sun ASEAN CONNECTION, SPORTS FOCUS, CULTURAL CALENDAR.

(via Robert Chear, Dec World DX Club Contact) FEBC at 0900-1100 on 11690: M-F STUDIO TEN incl NEWS, MUSIC, CHANGEPOINT, and: Sun DX REPORT, NEWS, STORY FOR YOU. Mon PROVERB FOR TODAY, COMPUTER CORNER. Tue JOHN SMITH, COMPUTER CORNER, SNAP HAPPY. Wed THE WAY OF THE WORLD, GUIDELINES. Thu COMPUTER CORNER, LIVING WITH SCIENCE. Fri FEEDBACK, COMPUTER CORNER, YOU & YOUR HEALTH. Sat NATURE SHOWS THE WAY, NEWS, THE MUSIC ROOM.

R U S S I A (Radiostantsiya Vostok via Alan Roe) Dealing with R Vostok provides you with a wide choice in long, medium and SW bands, opportunities for your advertising to cross state boundaries and time zones, a chance to be heard in Russia's Far East and the countries of the Asian Pacific region. Our languages are Russian, English, Japanese, Korean, Chinese. High standards of R Vostok programs and prestige among listeners guarantee success to your advertising materials. Our main features are independence of views, competence and reliability of information. We will make it possible for you to meet interesting people and enjoy your favourite music. We are on daily from 11 till 12:30 Moscow time except Sats. Sundays, 11-12 Moscow time. You will find us on 19.61, 13.89, 4.83 in the 65, 41, 26 and 4 meter bands. Cost of advertising is 1 minute for $30. We are open for any offers of cooperation on your part. gh: Russian letterhead messed up with typeover in English, but I make out that this is in Khabarovsk, office phone and fax 33-83-81. The two SW fqs using 300 conversion factor come to 15298 and 21598 kHz. In Weltschau for 11 Jan, Wolfgang Büschel quotes AWR Asia DX that Radio East is at 0700-0830 (Sat & Sun 0800) on 5010, 7210, LW 153 & 216.

(via Monitoring Times) NADEZHDA, the first and only independent women's radio station in Russia and the CIS is here to greet you! Nadezhda stands for the world of men and women, family and children; for the world of theatre and cinema, literature and music; means broadcasts on any subjects, except politics: morality, education, history, environmental protection, medicine, religion, business and economy; offers advice o- the best fashion designers, cosmetologists, culinary experts; free instruction in etiquette as well as consultations by law/y/ers, doctors, economists; stand for advertisement of goods and services to women and everyone else in Russia, East and West Europe, Canada and Australia. You will never mistake us for anyone else, because NADEZHDA stands for elegance, a confident style, and professionalism. The world of broadcasting is incomplete without Radio Nadezhda. Address: Moscow 113326, Pyatnitskaya 25. Phones: 233 65 88, 233 69 83, 233 72 54, 233 78 49 (studio). Fax 230 28 28. Telex 411136 Radio. We invite sponsors, advertisers and professional organizations who would like to have their programs aired on Radio Nadezhda. gh: A separate sheet lists a very confusing schedule for autumn/winter 1992/1993; timezone not specified, and freqs are in 3 separate columns, as if for 3 different seasons, but not labeled, here given in order by group: FE 11-14 15460 7235(amended from 6050) 630--same for all 3. Urals/Siberia 14-17 11665 11805 9770 7235; 11665 9525 11705 7125; 11665 9590 9525. CAs 18-21 17675 11800 12005 9490; 17675 9580 9490 6110 6050; 17675 11910 11870 9490 7390.

Moscow 18-21 1440, 21-24 1440. W Europe 23-02 5915 1215; 5905 1215; 5905 1215. /see also JAPAN/

S E R B I A (Terry Richards, Lake Park GA) On WOR via WRNO Sun Jan 10 at 2130 you mentioned you were unable to find R Yugoslavia on 9505 at 2200. I'd noticed that recently too, but that date it was back, though with modulation trouble, trace of RFE in background. Same program, mostly propaganda blaming Bosnia for all the bloodshed in that region, was repeated at both 0100 & 0200 on 9580. /see ALBANIA/

S O M A L I A (to & from) VOA belatedly began a daily 15-min bc in Somali on Dec 27, 0245. Initially reported frequencies were 6155 7265 9575 9885. We found 7265 best tho interfered, no doubt via Botswana. Diane Mauer heard VOA-Africa announce 9865 instead, and we heard it there one night, but subsequently back on 9885; then per Dan Ferguson/VOA postings on SW Echo via Kirk Baxter, 9575 replaced by 11965, where we also heard it, but way under BBC English by Radio. 9885 is co-channel Switzerland. Note that 0245 is 5:45 am in Somalia--are they all early-risers, or is this for VOA scheduling convenience? Another SNAFU--Rusty Serenberg forwards an AP report from Tampa Tribune that AFRTS people were all set to establish station in Mogadishu, when marine Gen. Johnston sent them packing--this is to be a short-term operation, and AFRTS would imply long-term; troops upset about lack of stupid ball games (gh has decided to escalate from 'silly' ball games). However, before Xmas, PsyOps group from Ft Bragg did set up a 400-watt MW stn in Mog, Radio Hope, with Somali help, fq not specified, per NPR ATC Deborah Amos report via Tim Hendel. Very same unit that ran R Recovery in Homestead, and I'd not be surprised if it's the very same xmtr which then was on 1610 (but presumably no need to go out of band in Somalia!) John Norfolk monitored International Amateur Radio Net bulletin Dec 7 at 0000 on 7291, that IARN hoped to set up a bc station in Mogadishu, same principles as R Free Bougainville, i.e. open to all factions, to promote peace; volunteers please contact Sam Voron, VK2BVS, 2 Griffith Ave, East Roseville, 2069 Australia; phone 011-612-417-1066. In his CIDX Ham column for Jan, Rob Gerardi reported: N2RHP/T5 logged on 28480 at 1423 in mid-Dec, is David L Smith, Fort Drum NY. Said several military personnel had permission to bring ham gear, form temporary ham club for DX, message traffic also for relief workers. T5CB, Chuck Brainard from Buena Vista CO, one of the latter if in Somalia as expected would operate on 14195, 14246, 21295, 28495 SSB. On a rare new edition of Signals, Jan 3, Larry Ledlow gave lots of info on monitorin' military/ute traffic: Busy enroute bases are Andrews, MacDill, Lajes, Ascension on 6738, 8967, 11176, 11226, 13201, 18019 all USB. Calls Reach + 5 digits like 80217 are cargo planes of the Air Mobility Command. Scott AFB ops center is Helma(?); air refueling craft use callsigns Exxon, Texaco, Accuse on 5692, 6701, 10930, 12290, 14655. On same channels plus 3870, 7844, 8192, 9175, Absolution is for Op Restore Hope. Absolution-E is Mogadishu, -K is Addis SAM==special air mission calls with congressmen or diplomats aboard, one step below Airforce 1 & 2. SAM + 5 digits could also be Secy of State or other cabinet. SPARK = lower status VIPs. PAT = priority air transport, usually US Army VIPs. See Gayle Van Horne's military callsign directory from Grove. Often request phonepatches via AUTOVON. METRO = Meteorological Reconnaissance Office. 4-letter designators of ICAO, unclas, include HECW=Egypt Cairo West staging area. LERT=Rota, Spain. HFFF-Djibouti. OEJN=Jedda. HCMM=Mogadishu. This info per Klingenfuss. Alfa code for aircraft maintenance status: A-1 = OK. A-2 + list equipment with trouble. A-3 = big trouble. E-A = cargo report, passengers. A-7 = VIP aboard. BBC Monitoring reported Jan 1 that on Dec 28, Ali Mahdi Muhammad's Radio Mogadishu was heard closing at 1430 on new 9574 instead of 6958; had been only around 6958, but reopened as scheduled at 1600 on 6958..

S P A I N (gh) Spanish National Radio conveniently announces its entire weekly program schedule at the head of each broadcast, and revised it in mid-January, as follows Jan. 18 0100 on 9530: Mon-Fri NEWS, PANORAMA (Spanish pop music, invited commentary or report, review of Spanish press, weather bulletin); 2nd part of PANORAMA rotates: Mon SPORTS SPOTLITE, CULTURAL ENCOUNTERS--Spain/NAm interaction. Tue ECONOMIC REPORT, SPANISH STAGE & SCREEN. Wed alt PLANET EARTH--ecological issues, and SCIENCE DESK--science and health topics, then CULTURAL CLIPPINGS--books and cultural activities, e.g. exhibitions, academic events. Thu AS OTHERS SEE US--journalists of other countries about Spain, repeat RADIO CLUB from Sun. Fri WINDOW ON SPAIN--current events, WEEKLY REVIEW OF ART & MUSIC. Every weekday after PANORAMA, COURSE IN SPANISH--a long time till lesson one repeats. Sat NEWS, DX PROGRAM /previously on Sun = UTC Mon for several months/, HISTORICAL FOOTNOTES, ALBUM OF SPANISH COMPOSERS. Sun NEWS, THE OUTSIDE TRACK--pop music in Spain /not to be confused with CBC/RCI INSIDE TRACK-sports!/ SPANISH PRESENCE IN THE U.S., RADIO CLUB--letters and record requests. Is 0000, 0100, 0500 on 9530.

S W I T Z E R L A N D (Walter Fankhauser, Head PR+Marketing, SRI, Oct. 7) Re ramarks by Larry Nebron, RIB-143, I'd like to respond: Claim that "SRI is an example of poor domestic coverage" does not correspond with reality. In fact, in the past few years, there has been a substantial increase in SRI's English-language coverage of Swiss affairs to the point where today, the "domestic" output of the English service (and SRI in general) far exceeds coverage of purely international affairs. This was a conscious decision taken in large part in response to audience demand, and should have become even more evident with our new program structure that began on April 1. Reason the English service maintains three correspondents in Geneva is because of the unique international importance of that city which cannot always be covered effectively by one person. Jessica Hottinger has recently taken over that post. She also works for the French and Spanish services. Alan McGregor alias Roy Brunton has other professional responsibilities in addiiton to SRI. It may seem like an easy matter to find Eng-

lish-speaking correspondents in other parts of Switzerland, but in reality is is not so simple to find qualified talent of that kind. Above and beyond this, maintaining a network of correspondents is a costly matter. With the exception of the news, everything broadcast by SRI in English is produced by eight fulltime journalists maintaining a six-day production schedule. Their work also includes translating, and servicing the domestic cable radio network as well as the new Astra satellite program for Europe. Other stations require many times more personnel to produce the same amount of programming. As for advance programming info: because of their very heavy individual work loads, producers cannot always prepare feature material far in advance. For the sake of reliability and flexibility, we do not wish to announce feature programs in advance unless we are certain that they will be broadcast on the date given. We agree that in an ideal world, advance program details would be desirable. In practical terms, however, we believe that the thematic focus of most of our published English-language schedule is sharp enough that listeners are not entirely in the dark as to what to expect on a given day. And finally, the story about Emmental cheese was in fact covered by the English service when it broke several months ago. And a follow-up report was planned at time of writing.

(Bob Zanotti, SRI, fax via Larry Nebron) SRI Sunday topics in January ... Jan 24, Rhythm Makers: Deep Purple - The Swiss Connection (Peter Capella); Jan 31, Name Game (Mystery Destination Competition)

S Y R I A (via Alan Roe, UK) Undated R. Damascus English Programme schedule; no frequencies but likely on 15090, 12085 and/or 9950: First Period to Europe at 2010-2105 has features at 2030, 2045; Second period to US, Canada, Japan, Australia at 2110-2210 has sometimes same, sometimes different ones at 2130, 2145, here listed in 4-time order by day: Sat WELCOME TO SYRIA, ARAB CIVILIZATON, HUMAN RIGHTS, SYRIA & THE WORLD. Sun FROM OUR LITERATURE, MUSIC FROM THE ORIENT, ARAB PROFILE, ECONOMIC AFFAIRS. Mon ARAB PROFILE, PALESTINE TALK, CAMERA & MASKS, PALESTINE TALK. Tue SYRIA & THE WORLD, LISTENERS OVERSEAS, REFLECTIONS, BACK ON THE STAGE. Wed AROUND THE WORLD, SELECTED READINGS, LISTENERS OVERSEAS, SELECTED READINGS. Thu FROM WORLD PRESS, REFLECTIONS, FROM WORLD PRESS, ARAB WOMEN IN FOCUS. Fri ARAB NEWSWEAK /sic/, CULTURAL MAGAZINE, ARAB NEWSWEAK /sic/, FROM OUR LITERATURE.

T A I W A N (via Christopher J Williams, Oct WDXC Contact) VOFC block program sked appeared in DXLD 38-12, but here is additional info: JOURNEY INTO CHINESE CULTURE covers 4 areas: traditions, Chinese articles, historical figures, special topic related to Chinese culture. First week of every month: Ch trads & customs, helping listeners gain better understanding of thought and behavior of Chinese; 2nd week, artifacts, utensils, art objects, e.g. jade bracelets, spring couplets, chopsticks, lunar calendars. 3rd week, historical figures--politicians, philosophers, scholars, their life, background and historical significance. 4th week, special topic such as languages, story telling, Chinese jokes, and listener participation important in this edition, topics chosen from requests. MUSIC BOX, Taiwan pop music scene, latest records, newest voices, translations of lyrics to know what the singer is singing about. REFLECTIONS, contemporary Ch lit in Taiwan thru readings in translation--novels, prose and poetry, drama; trends and developments in Ch lit, interviews with writers, critics, opinion leaders. Comparisons of Ch lit in Taiwan to other world lits, background on history of Ch lit.

U S A (gh) DX DAILY starts Feb. 1--details on page 39. Please contribute if you can to keep it on!

(gh) Having cleared the paperwork, Jeff White tells me R Miami International is eager to actually build the facility. An experienced broadcast engineer is needed immediately, preferably with knowledge and experience of shortwave, willing to spend the rest of the winter in Miami, for 2-4 months. Would be involved in constructing corner-reflector antenna, transmitter building, reassembling transmitter, other construction. Contact Jeff White ASAP--voice 305-551-5834, fax 305-267-7375. CP deadline is for WRMI 9955 to be on by May 18, preferably much earlier.

(Miami Herald, Sept. 4, via Mike Cooper) Hundreds of Cuban Americans have been calling R Martí, to let family in Cuba know how they fared during storm. Is airing messages on FAMILY BRIDGE; has been processing about 800 calls a day thru 1-800-77-MARTI. (Joel Gutiérrez, El Nuevo Herald, Nov. 12 via Mike Cooper:) To fight Cuban jamming, R Martí has bought time on two Miami MW stations heard on Cuba, at a cost of $700 an hour each--WQBA 1140 and WAQI 710, both at 10-11 pm EST. (Tim Hendel, Miami, Jan. 2:) I've not heard R Martí at all on WQBA; heard once on WAQI at 10 pm, R Martí programs but not // regular Martí fqs. Since then, WAQI not heard with any Martí programming at that time; experiment? Visited Key West by car in October with a friend. VOA station is off beaten track in Marathon, past a golf course. Four-tower array toward Havana; security guard was nice but could not let us in. Assured us RM was on air from this site now. We had quite a hard time finding place where TV Martí balloon is moored. You can see the balloon in the air, but we had to drive down several back roads before we found the right place. In fact there are two balloons, one in air and one on ground, an extra. They are behind locked gate and fence, very severe sign saying "CKAFS"--Cudjoe Key AF Station. No entrance allowed; not IDed as site of TV Martí, no personnel seen there.

(Malcolm Kaufman, Cambridge MA, Nov. 29) Have observed new program from VOA, BUSINESS REPORT, alternating weekday morns in local target area with NEWSLINE, which appears one hour at :10 past, BUSINESS REPORT at same time following hour. Best here at 0510 on 7405, 6035 for Africa. Has correspondents' actualities on international economic developments, not overly technical and useful to lay person.

(via Dan Ferguson, VOA, SWL-List Dec 2 via Will Martin) Selected VOA programs as scheduled as of Nov 17 revision: PRESS CONFERENCE USA, Sat 1930, 1130, 1530, Sun 0130. COMMUNICATIONS WORLD, Sat 2110, 1210, 1710, Sun 0110. ISSUES IN THE NEWS, Sat 2130, Sun 1130, ,1730, Mon 0130. VOA PACIFIC Sun 2110-2200. CRITIC'S CHOICE, Sun 1010, 1310, 1110-Carib, 1710. NEW HORIZONS, Sun 1110, 1510, 2110, 0810, Mon 0110. ENCOUNTER, Sun 1210, 1610, 1810, Mon 0010. STUDIO ONE, Sun 1230, 1530, 2130. THE CONCERT HALL, Sun 1410-1455, 2010-2055. STUDIO ONE also Sun 1130-Carib. ASIA REPORT Mon-Fri 1410-1455. WEEKEND MAGAZINE, Sat 1030, 1230, 1730, 2130, Sun 0030. AGRICULTURE TODAY, Sat 1110, 1210. ON LINE, Sat 1310, 1610, 1810, Sun 0010. MUSIC USA (Jazz), Sat 1410-1455, Mon-Sat 2010-2055. EDITORIAL (now Clinton/Democrat controlled for a change!!) Daily 1455, 2055. NIGHTLINE AFRICA, Daily 16-17, 20-21. VOICES OF AFRICA, Sun 1710, Sat 1910. MUSIC TIME IN AFRICA, Sun 1733 & 1933 (different). AFRICAN PANORAMA Mon-Fri 17-1730, 19-1930. WORLD OF MUSIC, Mon-Fri 1933-20. NIGHTBEAT AFRICA, Sat 1733. CASEY'S TOP 40, Sun 0910-1000-ME. WORLD OF MUSIC also Sun 0830-09 to ME. AMERICAN COUNTRY COUNTDOWN, Sat 0806-09 to ME. VOA EXPRESS, Tue-Sat 0210-0300-Carib. VOA EDITORIAL, also Tue-Sat 0155 Carib. REPORT TO THE AMERICAS, Tue-Sat 0110-0155 & 0210-0255. VOICES OF AFRICA also to Carib, Sun 0210. Sorry the times are not in order, but extracted from sked in order presented, here strictly UTC days.

(Greg Garrison, National Catholic Reporter, Jan. 8 via Scott Edwards, CA) Vandiver, AL. As Mother Angelica began broadcasting worldwide shortwave signals Dec. 28, she was getting static for installing radio towers on Alabama's third-tallest mountain. "They've taken a pristine area everybody wanted to preserve and ruined it," said Lane Friedman, a Las Vegas physician who owns 180 acres on the 1200-ft mountain. Landowners have filed lawsuits against the network and Alabama Power Co. They say they resent the station's taking over an old logging road, clearing the picturesque peak and hiring the state's biggest utility to install a substation and zigzag large power lines across land covered by a small, local power company. Friedman has sued the network for trespassing and widening the dirt road that curves up to the mountaintop. "That road is on my property," he said. "I never wanted it to be a public road, and it never has been." Matt Scalici, senior VP of engineering for EWTN in Irondale, said the road had been there for 80 years and EWTN's radio service could legally use it. "Environmentally, we haven't destroyed anything," Scalici said. "It all depends on your perspective." ...

gh: WEWN got off to a shaky start Dec. 28, transmitter cutting on and off, and continuous audio crackle. Disappeared around Jan. 9 and George Thurman found out why from George Jacobs: was putting so much spurious radiation, including interference to local police departments, had to go down for at least two weeks to try to fix it. Previously had blown out two $75000 power amp tubes in haste to meet Dec. 28 target. Tim Hendel noted a great absurdity--before frequency changes, they would announce frequency leaving, but not the one going to!

(via Adam Lock, WWCR) Melaku Tefera is starting some programs to Africa in the late-night hours here, scheduled Tue-Fri 0645-0700, Fri 0900-1100, Sat 0800--1000; frequency changed from 7435 to 12160 in the 08-11 period--does it work? Regular Saturday service starts 5 Feb, and Friday program is called ETHIOPIAN RADIO; VOICE OF HAITI at some other time planned. Another new client which may be a major one on WWCR #3 when it comes on in a few months, is Project Saturn Global, originally conceived to be satellite service (Satellite University Radio Network), but starting on WWCR Jan 27, Weds. 08-09 UTC on 12160. The world's first commercial all-educational K thru 12 and public affairs oriented network. Also has been running PSA on WWCR promoting Boil Your Water / Wash Your Hands.. P S G is a very large project, CEO Catherine Kahn; press info from 213-285-3655; fax 213-388-4222. A joint venture of Electro-Romm Inc., and World Audio Librairies Ltd. Initial satellite sked was Weds 1700 GMT on Galaxy 5, Tr 7, 5.7975 MHz at 3.5 KZ /sic/. Budget $2.5 million per year. IRS WHISTLEBLOWERS program expected on 7435 UTC Mon 06-07, but until it shows, SIGNALS is repeated.

(Fred Waterer, Jan DX Ontario) While listening to KCBI before shifted southwards, I heard an incredible tirade by Gene Scott against one of his staff/volunteers. He kicked this woman out of the building and told her never to come back. On the air. Around the world. Her "crime"? Apparently, she did not get up and move around the room when he wanted her to. The people answering phones were too quiet and unenthusiastic that night when Scott figured they should be rejoicing over the startup of KCBI and the anniversary of his ministry. The message was: I am everything and you are nothing.

(Alfred Heines, Melbourne, Vic, Jan. 12) Via WWCR, Gene Scott and his bible-bashing are well audible on either 5935 or 13845; even heard that clown via transmitters in former USSR. DGS is fast becoming the type of bloody nuisance that R Moscow has been and still is with dozens of frequencies. Wherever I tune to, DGS is doing his number. Is that how Americans get their kicks--listening to this dill and sending him their hard-earned cash? Send it to me--I promise you I will put it to better use than DGS or any of his cronies. Remember what W C Fields used to say about suckers.

(Tim Hendel, Miami) These right wing programs on WRNO & WWCR are really going beyond the pale. I'm definitely in favor of freedom of broadcasting, even for crazies, but these people are really off the deep end. I heard the guy just before the UK report on WWCR Sat night talking about a Judeo/Communistic plot!

(Fred Waterer, Jan DX Ontario) WWCR should stand for World Wide Conspiracy Radio, with William Cooper.

(Tim Gueguen, Saskatoon, Dec. 28) William Cooper announced on his HOUR OF THE TIME, Dec. 21 that he is negotiating with WWCR to move to Monday-Friday following RADIO FREE AMERICA, midnight Eastern /subsequently done, UTC Tue-Sat 05-06 on 7435 once PRAYERLINE moved back to WJCR only -gh/. Asked for donations, cheques and MOs made out to WWCR! How would they react to hundreds of individual cheques? Was previously on Becker Satellite Net, but disagreement over money. John Lightning used to promote on RMI, but no more, I suspect due to Cooper's rather odd beliefs. More on him is in Brian Siano's Skeptical Eye column in the Spring 1992 issue of Skeptical Inquirer. Why does American SW attract characters like him? Cheap way to reach large audience. I recommend Inquirer as antidote to all the uncritical journalism out there on paranormal, questionable medical practices, UFOs, etc.

(Harold Ericsson, Harbor City CA, Nov 2) Response to your Nov MONITORING TIMES column: Rubin makes errors of fact, omission and dubious judgements. One marshal only was killed. Randy Weaver's 14-year-old son and wife were killed by federal authorities. No evidence Weaver is a Nazi nut. Real story is how national media reported Idaho events. R Free America may be something of a scam, but with media so reluctant to give accurate info on many aspects of American life we should be thankful for diversity.

(Ernie Behr, Ont, Oct. 3) Those complaining about WWCR programs should at least get facts straight. White family on Idaho mountain was executed by fed agents armed with tanks, helicopter gunships. Womar holding child was shot thru head, another child in back. Only one agent killed, accidentally; no reason for massive assault on peaceful family. Massacre totally ignored by controlled media; we only hrd about this atrocity thanks to WWCR. No need to mention on WOR, but I hope you will correct in print.

(gh) Thx to Jim Wishner for a newspaper clipping, and Allan Garshowitz who visited it, we are in contact with Edward Addy, Edina MN and his Global Voices Project. During Desert Storm, a temporary station was set up, now plans for a permanent 10-transmitter, multi-rhombic MARS-type station for disasters and emergencies, military-support communications. Preferred site was in central Minnesota, but as of late Dec not certain--could be ND instead. Call should be AAR5CDV; xmtr power 5 kW max, ½ W minimum, antenna gain 27 dB at 12 MHz. Frequencies will not be publicized, but DXers will quickly find them. At full bore, would have 45 operators per shift; HQ building with lodging, classrooms. Stacked 10-wavelength rhombics. Will QSL for SASE on time-available basis. Soliciting funding and donations, volunteers. Hopes to be on in next month or two in order to assist with Somalia, ME situations. We have the Oct-Nov Global News letter; suggest $1 for postage etc., to Global Voices Project, Edward E. Addy, P O Box 23057, Minneapolis MN 55423, to learn all about it.

(gh) LARRY KING celebrates his sesquidecade on network radio Jan. 29 (or did he say on the Jan. 28 show?), after which he moves to afternoon slot weekdays 3-6 pm ET! Naturally, many of the affiliates will be different; I predict the aftn LK show will be much more disjointed as local drive-time forces affiliates to cut away more for traffic, heavier ad loads, etc. JIM BOHANNON inherits the weeknight 11 pm -2 am ET slot, for which he has substituted so much already. I always liked JIMBO better; tho both are somewhat liberal, King tho undeniably successful, approaches his guests from ignorance and loves them to death, while Bohannon is much better educated and skeptical, tho with blind spots such as believing Vietnam should have been bombed into the Stone Age. New host TBA gets Sat nite Bohannon slot, and theme music will be juggled. Another new national talk host is Gil Gross, ex-Paul Harvey sub, ending at 11 pm ET, on stations such as KSL-1160, WOAI-1200, when not pre-empted. Beware of KSL --UTC Jan 8 at 0406 when live LK show was about female sexuality, KSL censored it for a re-run of a previous show w/JB with Cronauer, and AFVN jingles. Surprised to hear Sat nite Jimbo repeated Monday morn until noon CT on KIND-1010, Independence KS; likewise LK shows on next mornings. Good news for PERSPECTIVE from ABC News fans, WBAP-820 Dallas/Ft Worth has been running it UTC Mons 0505-0600, same time as WWWE-1100 Cleveland; also on KOA-850 Denver Suns 1205; KTOK-1000 same time often reruns oldies

(via Kevin Klein, WI) DOWN HOME DAIRYLAND, Sundays 8-8:30 pm on Wisconsin Public Radio has new magazine format, traditional music: Jan 31, Lumberjack Sounds from the Sugar Island Boys. Feb 7, "49" Songs. Feb 14, Upper Peninsula Finns. Feb 21, Our "Up North" French (Mardi Gras). Feb 28, Polka Sound of Cousin Fuzzy and Uncle Ozzie. Mar 7, Lake Michigan Disasters. Mar 14, St Patrick's Day on Beaver Island. Mar 21, Czech Harmonica of Plehal Brothers. Mar 28, Midwestern Klezmer Music.

(Steve Dick, Eureka IL, Oct. 5) FOCUS 580, call-in on WILL-580 Urbana with David Inge, is one of better interviewers, with some of the most useful and interesting guests. Only other talk show worth the effort is EXTENSION 720 with Milt Rosenburg on WGN every weeknight from about 9:08 to 11 pm CT.

(Ron Jacobs, Hawaiian Airlines Magazine, Jan. via Alan Johnson) HAWAII CALLS radio program resumed Oct. 3. Visitors are invited to attend Saturday broadcasts at Hilton Hawaiian Village Tropics Showroom. Buffet lunch from 11:30 am, show at 1:30, taping from 1:00 /sic/. Travels to a Neighbor Island or different Oahu location once a month. Phone 808-947-7993 for info, reservations. /When is it on?/ (Floyd Strohmaier, MN) In Minneapolis, KLBB 1400 at 1830 UTC Saturday evenings; I attended one during WW II, music about the same now as then.

U Z B E K I S T A N (via Alan Roe) R Tashkent main pgms: AT LISTENERS' REQUEST every Mon 1200. INFORMATION-MUSICAL PGM every Tue 12 & 1330. LIFE IN THE VILLAGE Wed 12. BUSINESS CLUB Wed 1330. YOUTH COURIER Wed 01. MUSICAL PGM Thu 12, 1st Sun 1330, 2nd Sun 12, 3rd & 4th Suns 1330. WOMAN & SOCIETY,

4th Thu 1330, repeated 1st Thu of next month 1330, 2nd Sat 01. RADIO ACQUAINTANCE 2nd & 3rd Thu 1330. LIFE OF THE MUSLIMS 1st, 2nd & 4th Fris 12. ASSALOM ALEIKUM, ASIA! 3rd Fri 12 & 1330. SATURDAY NIGHT WITH RADIO TASHKENT LISTENERS 12. DX-PROGRAMME 2nd Sat 1330, 3rd Fri 01. MOTLEY MIKE 4th Sun 12, 1st Sat 01, 2nd Sun 1330. IN THE WORLD OF LITERATURE 3rd Sat 1330, 4th Sat 01. R Tashkent also is looking for advertisers, business partners.

V A T I C A N (gh) Vatican R has split its pgm guide into two editions, one for Europe, one for elsewhere; we got the latter for Jan -Feb-Mar. Finally gives some pgm titles but no days! THE ROME REPORT-morals and ethics. A ROOM WITH A VIEW OF THE VATICAN--inside look at events. POSTCARDS FROM ROME--on-the-spot **historical**, cultural reports. BY THE WAY--Catholic perspectives. ASK THE ABBOT--faith questions. WITNESS--inspiring troubled listeners. At 0250 qv.

V I E T N A M (SW Paradise BBS via Reid Kelly, Larry Nebron) VOV English feature programs valid as of Sept. 6, 1992 for the 10, 11, 1230, 1330, 16, 18, 19, 2030 and 2330 bcs --Mon WELCOME TO VIETNAM--tourism. Tue SPORTS & CULTURE. Wed LETTERBOX Thu VIETNAM'S ECONOMY. Fri TALKS OF THE WEEK. Sat WEEKLY REVIEW, MUSIC PROGRAM. Sun SUNDAY SHOW.

C A N A D A (Allan Garshowitz, Vancouver BC, Jan 13) Talked to Jack Wiebe, CKWX & CKFX in mid-Dec. Return of 6080 delayed until Jan or later. Big news is that he is talking of 100 kW, a major surprise when it comes on; cutting between DW on 6075 & 6085 to preserve use of the fq. gh: Positive not 100 W?

I R A Q (BBC German DX pgm via Büschel) Baghdad in English at 22-23 on 13680 //15210.

N E T H A N T I L L E S (Allan Garshowitz, BC) Spoke to McDaniel Phillips at TWR. Main transmitter is at end of supposed life, $500K of repair required to restore. Astonished it still works as well as it does. Explains reticence in face of tech change /to continue SW/. Bonaire salt flats seem to give it comparable reception to 250 kW BBC Antigua. TWR board now has qualms about any further burden upon frail machinery supporting their ministry. /SW ends 6/30/

U K R A I N E (Allan Garshowitz) R Ukraine is very reliably producing musical wonders on several frequencies received in Ontario every morning 1500-1700. Try 17810, 15485, 11870 (weaker here). Music seems predominantly operatic, choral and generally classical in the Russian folk melody manner.

U K O G B A N I (gh) From new format London Calling in Feb BBC Worldwide this compact crossreference:

BBC WORLD SERVICE

SPOTLIGHT ON SOUTH ASIA

SPOTLIGHT ON South Asia

The season is the largest collection of programmes and events based around a region to be mounted by BBC World Service. Around 70 programmes express the diversity of life and society in Pakistan, Bangladesh, Nepal and Sri Lanka

After Independence
4 x 30 min: The recent history of the three nations that made up the old India from Sat 6th1915 rpt Mon 0115, 1530

Eastern Sounds
6 x 30 min: Music from South Asia from Tue 16th 1030 rpt Fri 0030, 1715

Four Short Stories
4 x 30 min: includes two stories by Indian writer R K Narayan. Thu 4th 0430 rpt 1430, Fri 5th 0430 rpt 1430

Gods, Guides and Gurus
5 x 30 min: Religion in South Asia from Sun 21st 0230 rpt 1615, Mon 0730

Good Books
15 min: Anglo-Indian season. Sat 0415 rpt Wed 1445, Thu 0815

It's Your World Phone-in
4 x 59 min: from Sun 7th 1401 ed. rpt Mon 0630, 1001

Megamix
30 min: A South Asian pop special from Colombo, Sri Lanka Tue 16th 1130 rpt 1615, 2215

Meridian
30 min: Thrice-weekly arts magazine with Spotlight On South Asia specials Sat 0630 rpt 1130, 2030; Tue 2030 rpt Wed 0630, 1130; Thu 2030 rpt Fri 0630, 1130

Outlook
25 min: Five South Asian city specials: Mon 22nd-Fri 26th 1405 rpt 1905; Tue-Sat 0105

Plays Of The Week
5 x 60 min: *Sakuntala* Sun 7th, *Hayavadana* Sun 14th, *Mother Of 1084* Sun 21st, *In The Native State* Sun 28th 0101 rpt 1201, 1901

Taking Issue
6 x 30 min: A round-the-world discussion programme travels to Bangalore, India 19th and Karachi, Pakistan 26th. Fri 0730 rpt 1215, 1930

BBC WORLD SERVICE

MUSIC: POPULAR

A Jolly Good Show
45 min: Sat 0815 rpt 2315, Tue 1515

A Taste Of Soul
8 x 15 min: from Sun 28th 0445

Andy Kershaw's World Of Music
15 min: Mon 0445 rpt 0930, Wed 1730

Anything Goes
30 min: Mon 0330, 0830

Country Style
15 min: Wed 0145 rpt 0445, 0915

Folk Routes
15 min: Fri 0445 rpt Sun 0930, 2009, Tue 0130

Jazz For The Asking
30 min: Sat 2215 rpt Sun 0630, Wed 1030

Jazz Now And Then
15 min: Sat 0145 rpt 0430, 1001

Jazz Score
8 x 30 min: until Mon 15th 1715 rpt Tue 0030, Wed 0830

John Peel
30 min: Sat 1401 rpt Tue 0330, Thu 0830

John Sugar Goes In Search Of...
5 x 30 min: from Mon 1st 2215 rpt Tue 0630, Wed 1615, Fri 1030

Megamix
30 min: Tue 1130 rpt 1615, 2215

Multitrack
30 min:
1 Mon 1830 rpt 2330, Tue 1215
2 Wed 1830 rpt 2330, Thu 1215
3 Fri 1830 rpt 2330, Sat 1215

Music From The Med
6 x 15 min: until Sun 21st 0445 rpt Mon 1445, Wed 0815

Out Of Tune
1 x 30 min: Sun 14th 0230 rpt 1615, Mon 0730

Recording Of The Week
15 min: Sat 0045 rpt Mon 0615 rpt 1445

The Ken Bruce Show
30 min: Sun 0030 rpt 1130, 1830

The Vintage Chart Show
30 min: Sat 0330 rpt Mon 1030, 2030

MUSIC: CLASSICAL

Classics With Kay
45 min: Sun 0815 rpt 2315, Thu 1515

Composer Of The Month
30 min: Mon 0230 rpt 1130, Tue 1715

Eastern Sounds
6 x 30 min: from Tue 16th 1030 rpt Fri 0030, 1715

International Recital
6 x 45 min: Sun 1515 rpt Tue 0815, 2315

Mastersingers
8 x 15 min: from Mon 15th 0145 rpt Tue 1445, Fri 0415

Musical Mavericks
6 x 15 min: until Mon 8th 0145 rpt Tue 1445, Fri 0415

Music Review
45 min: Thu 2315 rpt Fri 0815, 1515

Unravelling Ravel
6 x 30 min: until Tue 9th 1030 rpt Fri 0030, 1715

RELIGION

Focus On Faith
30 min: Thu 1830 rpt Fri 0330, 1001

Gods, Guides and Gurus
5 x 30 min: from Sun 21st 0230 rpt 1615, Mon 0730

In Praise Of God
30 min: until Sun 21st 1030 rpt 1715, Mon 0030

The Pains Of Glass
30 min: from Sun 28th 1030 rpt 1715, Mon 0030

Words Of Faith
5 min: Daily 0809 rpt 1209 (ex Sun), 2025, 2305 (Sat only)

NEWS & CURRENT AFFAIRS

WORLD NEWS

15 min: Daily 0400, 1500
9 min: Daily 0300, 0600, 0800, 1600, 2000, 2200; Mon-Sat 1200
5 min: Daily 0900, 2300; Sun-Fri 1700; Mon-Fri 1400, 1900; Tue-Sat 0100
1 min: News Summary Sun, Mon 0100; **Daily:** 1000; Sat-Sun 1400, 1900; Sat 1700, Sun 1200

NEWSDESK
30 min: World, UK, financial and sports news, with the voices of the people in the news and dispatches from BBC correspondents and reporters. Daily 0000, 0200, 0700, 1100, 1800

NEWSHOUR
60 min: Up-to-the-minute international and British news. The 0500 edition also includes a look at the UK newspapers at approx 0545. Daily 0500, 1300, 2100

NEWS ABOUT BRITAIN
5 min: Daily 0309, 0609, 1609, 2209. Further coverage is included in *Newsdesk* at approx 20 minutes past the hour and in *Newshour* at 40 minutes past the hour

Assignment
30 min: Weekly examination of a topical issue. Wed 2030 rpt Thu 0330, 1001

From The Weeklies
15 min: Review of the weekly press. Sat 0030 rpt 1045, 1945

From Our Own Correspondent
15/20 min: BBC correspondents provide the background to the news. Sat 1830 rpt Sun 0330, 0730; Wed 2315 rpt Thu 0445, 0915

Outlook
25 min: A combination of conversation and debate, plus news and views from the UK. Mon-Fri 1405, 1905; Tue-Sat 0105.

People And Politics
Background to the British political scene. Fri 2215 rpt Sat 0230, 0730.

The World Today
15 min: Examines thoroughly a topical aspect of the international scene. Mon-Fri 1645 rpt 2009; Tue-Sat 0615

Worldbrief
15 min: Review of the week's headlines and a general roundup ranging from sport to finance. Fri 2315, Sat 0445, 0915

SPECIAL FEATURES/NEW SERIES:

Taking Issue Around The World
6 x 30 min: until Fri 26th 0730 rpt 1215, 1930

What's News
9 x 15 min: until Sat 27th 1901 rpt Mon 0101, 1515

From Our Own Correspondent: Mark Tully

DRAMA & READINGS

OFF THE SHELF
15 min: Mon-Fri 0430 rpt 1430: **Titus Groan** until Mon 1st; Tue 2nd to Fri 5th **Four Short Stories**; **Picnic At Hanging Rock** in 10 parts from Mon 8th; **Yakshi** from 22nd in 10 parts.

PLAY OF THE WEEK

Sakuntala
60 min: Sun 7th 0101 rpt 1201, 1901

Hayavadana
60 min: Sun 14th 0101 rpt 1201, 1901

Mother of 1084
60 min: Sun 21st 0101 rpt 1201, 1901

In The Native State
2 x 60 min: Sun 28th 0101 rpt 1201, 1901

SHORT STORY
15 min: Sat 0130 (ex 6th) rpt Sun 2215

THIRTY-MINUTE DRAMA

The Rat Race
4 x 30 min: from Thu 4th 1130 rpt 1715, Fri 0230

ARTS & LITERATURE

Book Choice
5 min: Sat 1040 rpt 2310, Wed 0425, Thu 0140

From A Bruised Shore
4 x 15 min: from Wed 17th 0130 rpt 0930, 1715

Good Books
15 min: Sat 0415 rpt Wed 1445, Thu 0815

Meridian
30 min: Sat 0630 rpt 1130, 2030; Tue 2030 rpt Wed 0630, 1130; Thu 2030 rpt Fri 0630, 1130

Poets And Places
6 x 15 min: until Mon 15th 0415 rpt 0915, Wed 1515

Poems By Post
14 x 15 min: until Wed 6th 0130 rpt 0930, 1715

Writers In A Nutshell
10 min: Mon 1635 rpt Tue 0750, Wed 1235

COMEDY/QUIZ

Back To Square One
6 x 30 min: from Wed 1530 (ex 24th) rpt Thu 0030, 1030 (ex 25th)

Just A Minute
6 x 30 min: until Sun 7th 2030 rpt Mon 1215, Tue 0230

Quote, Unquote
10 x 30 min: from Mon 22nd 1715 rpt Tue 0030, Wed 0830

Ned Sherrin's Counterpoint
13 x 30 min: from Sun 14th 2030 rpt Mon 1215, Tue 0230

Two Cheers For February
30 min: Wed 24th 1530 rpt Thu 0030, 1030

SCIENCE

Discovery
30 min: Tue 1001 rpt 1830, Wed 0330

Health Matters
15 min: Mon 0815 rpt 1945, Tue 0145, 0415

New Ideas
20 min: Mon 1615 rpt Tue 0730, Wed 1215

Science In Action
30 min: Fri 1615 rpt 2030, Sun 1001

Seeing Stars
15 min: Sat 6th 0130 rpt Sun 3rd 0430, 0915, 2215

The Brain
6 x 15 min: from Mon 22nd 0415 rpt 0915, Wed 1515

Waveguide
10 min: Sat 1030 rpt Wed 0415, Thu 0130

FEATURES/ MAGAZINE PROGRAMMES

REGULARS:

Development '93
30 min: Tue 1930 rpt Wed 0230, 0730

Global Concerns
15 min: Fri 0145 rpt 0915, 1445

Letter From America
15 min: Sat 1015 rpt Sun 0615, 1645, 2230

Network UK
30 min: Thu 0730 rpt 1615, 2215

Omnibus
30 min: Wed 0030 rpt 1001, 1930

Personal View
15 min: Sat 0930 rpt 1730, 2009

Seven Seas
15 min: Thu 1930 rpt Fri 0130, 0930

The Farming World
15 min: Thu 0145 rpt 0415, 0930, 1945

Write On
10 min: Sat 1850 rpt Sun 0350, 0750

SPECIAL FEATURES/NEW SERIES:

After Independence
4 x 30 min: from Sat 6th 1915 rpt Mon 0115, 1530

East Meets West
2 x 30 min: until Mon 1st 0115, 1530

From A Bruised Shore
4 x 15 min: from Wed 17th 0130 rpt 0930, 1715

Gods, Guides and Gurus
5 x 30 min: from Sun 21st 0230 rpt 1615, Mon 0730

Images Of Britain
8 x 15 min: until Mon 22nd 2315 rpt Tue 0445, 0930

Inside The Photograph Album
6 x 15 min: Sun 0415 rpt Mon 1930, Tue 0915

Taking Issue Around The World
6 x 30 min: until Fri 26th 0730 rpt 1215, 1930

Task Force Orient
3 x 30 min: until Sun 7th 0230, 1615 rpt Mon 0730

Nepalese Prime Minister Girija Prasad Koirala

It's Your World Phone-In
3 x 59 min: from Sun 7th 1401 ed. rpt Mon 0630, 1001

Travelling Tales
5 x 15 min: until Wed 10th 0130 rpt 0930, 1715

BUSINESS

World Business Report
9 min: Latest news from the markets in the Far East, Europe and the USA. Mon-Fri 0905, 1705, 2305; Sat 0905. You can hear more financial news at approx 0525, 1325 and 2125 in *Newshour* and in most editions of *Newsdesk*.

World Business Review
9 min: A look back at the previous week's business and a preview of upcoming events. Sun 0905, 1705, 2305.

"8th October:
Si tuit dolh elh plor
Angold téthnēke
tuit lo pro, tuit lo bes..."

/continued from page 30/

- or our overelabotate way (by means of LXXXIV) of indicating that this is being written on 8 October (1992) /

WHAT DOES CABLE RE-REGULATION MEAN? On the day before 4 October, with the news of Mr Bush's veto of the "Cable Bill", and the Congressional vote to sustain or override the veto to occur on 4 Oct/, we were preparing ourselves to write either an obituary on the Home TVRO industry or an announcement of its rebirth - or at least of conditions conducive of a risorgimento for a business that has largely been in the doldrums, sustained only by piracy, since HBO - soon followed by other programmers - instituted "scrambling" in early 1986. Because of overwhelming Senate support for the bill, an override vote there appeared to be an excellent possibility, but the situation in regard to the House seemed somewhat less certain. Although the bill had been bi-partisan in sponsorship, it became a Democratic (largely pro) vs. a Republican (largly anti) issue. The Administration was vehemently opposed and exerted pressure on Republican Senate and House members to sustain the veto of the bill, which would require some to reverse their original vote in support of it. Pressure was exerted in the form of a "don't embarrass the President" pitch by permitting this to be the first of his vetos to be overridden, and right before the election at that. Nonetheless, the Senate overrode the veto by exactly the same margin as the original vote (the Administration was unable to change a single vote). This occurred in the afternoon of 4 Oct/, leaving us to wait for the House vote which came at about 9:30 pm EDT. (We had C-SPAN on one monitor while the Larry King colloquy with Clinton-Gore was on another monitor; watched the former while listening to the latter while vote was in progress; had caught the origination feed ["backhaul"] of King/Clinton-Gore on GS 2, mikes left open during commercial breaks making possible the hearing of some interesting utterances involving King and the candidates. The result of the House vote was given during the program, permitting Senator Gore, who had long been a supporter of this type of legislation, to comment.)

Since the issues involved in the legislation are not the sort about which Big Media - television, the press - have wanted to inform their viewers and readers, the public have not had a very good understanding of just what the legislation provides and how they can be benefitted. Seen as a "rate regulation" bill to prevent - put a cap on - the spiraling costs to which Cable subscribers have been subjected for a number of years, there was surprise and some consternation that it is only the "basic" tier of Cable services that is to be subject to rate regulation (locally, the "basic" tier has only a few hundred subscribers; for most subscribe to the higher - higher priced - tiers to get the most desired programming). Indeed, because of this, the Lexington city government's Cable coordinator dismissed the bill as "smoke and mirrors". But if the public at large and officials have not known what the bill is most significantly about (we'll get to that in a moment), believing it to be accross the board rate regulation (price control), so also have newspersons and commentators. On "This Week with David Brinkley" a couple of weeks ago it was evident that all panel members thought that the price of all Cable programming would be subject to regulation. George Will, for whom the very word "regulation" is a hot nail through his intellect, specifically mentioned HBO, being unaware that no "premium" Cable channel would be subject to price regulation. (Too bad George and other "conservatives" can't go back to America of, say, 1870, before all of this regulation and welfare statism they so lament had not yet come to pass. Bring back the sweat shops, 14 hour workdays and child labour.)

If the Cable bill does not provide for price regulation only to a very limited degree, then of what use is it in controlling costs for the Cable consumer? That would be expected to occur as a result of the provisions of the bill intended to encourage competetion to the single Cable company that would be operating in each locality. (There are a few situations in which there are competing Cable companies serving the same area - in these situations the pricing regulation on "basic" service does not apply.) That competetion would be in the form of Home TVRO, Direct Broadcast Satellite, Multipoint Microwave Distribution System, or even the telephone companies (the only possible alternative wired competetor to Cable). The instrumentality whereby these alternative technology (wireless, fibre optics) distributors/sellers of "pay" television programming would achieve market place viability is the "equal access" provision of the bill: programmers will be required to make their programming available to these other entities on the same terms and conditions by which they are made available to their Cable outlets. Discriminatory pricing, the objective of which has always been to make Cable the "better deal" for the consumer - no matter how expensive - will no longer be the case. With the same - or very close to it (the number of subscribers a program service selling entity has is a factor in determining "wholesale" prices) - prices as a ground to work from, the Home TVRO dealer, the MMDS operator, the DBS system, can compete with Cable for the "pay TV" consumer's dollar: "mark up wars" can come about, as each seller attempts to see with what kind of profit margin he can operate while underselling the competetion. And there can be competetion in the areas technology and service - satellite delivery has already won in regard to technology over Cable. (A provision of the bill requires Cable to live up to certain standards in the area of customer service.)

But it will be a while before this marketplace activity can get under way, and we may expect resistance from the Cable industry through the courts to various provisions of the bill. Indeed, Turner Broadcast Systems (TBS, CNN, etc.) have filed a suit in regard to the bill's "must carry" provision - that is, the requirement that a Cable system carry the over-the-air broadcasters - Network, independent, Public - operating in the area it serves. Such government mandate as to Cable carriage, it has been argued, and the courts have concurred, is a violation of a Cable company's "First Amendment rights, Cable companies claiming that, in this respect, they have the same status as broadcasters, newspapers, other forms of publication. "Courts have ruled twice before that the so-called "must carry" provision viloates the First Amendment by giving broadcast stations and broadcast networks unfair advantage over over cable networks, said Bert Carp, TBS vice president for government affairs. 'There are a great many places in the country where the channels are full...Broadcasters will come in and want carriage and cable [programmers] will be dumped.' Carp said. [What he's really saying is, there won't be enough room for all of the shopping channels.]...'We compete every day with these free [is he choking on that word?] networks.' Carp said." [He goes on to complain about how the four Turner networks are without the resources to spend on programming that the broadcast networks have; how "must carry" further "tilts the playing field...in the direction of the industrial giants."] (From an Associated Press story, 7/10/92.)

The Cable industry (Time-Warner, etc.) complaining about "industrial giants"? Gimmie a break, as the current expostulation has it.

The Networks themselves, ABC, NBC, CBS, through ownership or association are a part of the Cable industry.

Now what about these, presumable numerous, TV stations that would have to be accomodated by Cable to the detrement of the Cable industry's own programming services? Far from being a disadvantage to them, by carrying local stations with their local (news) and network programming, Cable companies have a very saleable product to offer: indeed, their subscribers demand it, would be most displeased if they were dropped. These local ststions have been the "keystone" of a Cable system's offerings. For many - apartment dwellers, etc. - Cable provides the only reliable means for reception of the local channels, Network programming. Since local stations are the major component in Cable's "basic" tier, dropping them would, in effect, eliminate the only tier of programming services subject to price regulation.

Now there is a provision of the Cable bill that would seem to give the Cable industry a better argument against "must carry" than First Amendment carping. That would be the requirement that Cable pay over-the-air broadcasters for the programming they have been appropriating from them since the beginning of Cable. Why should Cable be required to carry certain programming and also pay for it? Cable campaigned vigorously against the bill on the basis of their having to to pay for formerly free (to them) programming, claiming that Cable rated would io ipso zoom, tho' it was really the "equal access" - competetion generating - provision of the bill that made it anathma to them. As we understand it, a Cable company and a broadcaster in its service area (or a "fringe" station that is popular in its service area) would negotiate the matter of compensation to the broadcaster for the right to Cable carriage of its signal. Now since it is very much to the broadcaster's advantage to be on Cable, it is highly unlikely that most broadcasters would seek anything other than a nominal fee - perhaps none at all - for retransmission rights. In any event, broadcasters maintain that Cable can absorb any additional costs that compensating them for access to their signals would involve without significantly affecting Cable rates.

Actually, Cable could probably never repay the broadcasting industry what it actually owes it for providing Cable, at least initially, its raison d'être, on the basis of which, with considerable business initiative, it has grown to be a highly successful enterprise.

The enforcement of the provisions of the Cable bill is to be left to the FCC. So the make-up of that body, its dedication to enforcement and the resources available to it for doing so, can determine the actual effect of this legislation.

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IN THE LAST "MEDIA MIND" (RIB 143) there were several slips (not unusual) - significant ones - that escaped our notice before going to press. Among them:

the "a" omitted from Caray (Harry and Skip);
p. 34, l. 29: delete "for a season or so" (had caught the repetition of this phrase, but forgot to correct);
p. 37. l. 30: for "also" read "now"; for "Chicago" read "Atlanta", for "Atlanta" read "Braves" (really screwed up here; must have been thinking of the younger Caray working for the White Sox network);
p. 38 (book review), l. 21: for "wrote" read "had written".

ON 22 OCTOBER, RED BARBER, one of sport's greatest voicevisualists passed away. Some aspects of his career - which included many "firsts" - were mentioned in the last "MM" (believe we failed to note that his was the voice on the first televised major league game: Reds at Dodgers, on 26/6/1939). Was accorded an appropriate tribute by Bob Edwards on NPR, with whom he had been speaking Friday mornings.

TRANSMISSIONS IN ENGLISH

Compiled by Alan Roe

W92/93
Issue 3(a)
Completed 4.1.93

RELAY SITES:

A = Ascension Islands
An = Antigua, W.Indies
Au = Moosbrunn, Austria
B = Bonaire, Neth.Antilles
Ba = Bangkok, Thailand
Be = Belize
Bh = Bahrain
Bo = Botswana
Br = Brasilia, Brazil
Ch = Beijing, China
Ci = Chita, Russia
Co = Colombo
Cy = Cyprus
D = Delano, USA
Dr = Droitwich, UK
E = Spain
Ek = Ekala, Sri Lanka
F = France
Fo = Forli, Italy
G = Moyabi, Gabon
H = Hong Kong
I = Irkutsk, Russia
K = Kigali, Rwanda
Km = Kimjae, S.Korea
Kr = Kranji
Kv = Kavala
L = Lesotho
M = Madagascar
Ma = Mali
Me = Meyerton, RSA
Ml = Cyclops, Malta
Ms = Masirah,
Mu = Munich, Germany
My = Montsinery, Fr.Guiana
No = Novosibirsk, Russia
NZ = New Zealand
P = Philippines
Pe = Petropavlovsk, Russia
R = Russia
Ra = Rampisham, UK
Rh = Rhodes
Sa = Sackville, Canada
Si = Sines, Portugal
Sk = Skelton, UK
Sm = Samara, Russia
Sw = Switzerland
Sy = Seychelles
T = Trincomalee, Sri Lanka
Ta = Taiwan
Tk = Tashkent
Tn = Tangiers
U = Orfordness, UK
W = Woofferton, UK
We = Wertachtal
Wh = WHRI, USA
Wy = WYFR, USA
X = Xi'an, China
Y = Yamata, Japan
Z = Zhigulevsk, Russia

OTHER ABBREVIATIONS:

a = approximately
EbyR = English by Radio
HS = Home Service
irr = irregular
lsb = Lower Side Band
{mx} = Music-only
occ = occasional
Sce = Service
ssb = Single Side Band
usb = Upper Side Band
v = varying
V = Voice
WS = World Service
**** = The schedule or frequencies not yet confirmed.

TARGET AREAS:

AF = Africa
AM = Americas
CAM = Central America
LAM = Latin America
NAM = North America
SAM = South America
AS = Asia
AU = Australasia
EU = Europe
FE = Far East
ME = Middle East
NZ = New Zealand
OC = Oceania
PA = Pacific
WW = World Wide

ADDITIONALLY:

c = Central
e = East
n = North
s = South
w = West

eg: seAS = southeast Asia

BROADCAST DAYS:

mo = Monday
tu = Tuesday
we = Wednesday
th = Thursday
fr = Friday
sa = Saturday
su = Sunday
x = Except (eg xsa-su = except sa/su, etc)

All times and days are strictly UTC. All dates are in DD/MM format.

Broadcasts lasting more than 3 hours, or which extend beyond 2400 are re-listed at 0000, 0300, 0600, etc, & are shown by > and/or < symbols. eg: 0200-0800 is shown as: 0200-0300>, 0300-0600<>, 0600-0800<.

Owing to the very large number of R.MOSCOW WS frequencies, only the frequencies for EUROPE, N.AMERICA, & AUSTRALIA have been listed in full.
As a guide for other target areas, frequencies are listed for a selection of hours in the broadcast period, as follows:
***MIDDLE EAST** (0100-1700) are listed for: 01, 05, 09, & 13hrs; **AFRICA** (0200-2300) for: 03, 07, 11, 15, 17, 19, & 21hrs;*
***SOUTH+SOUTH EAST ASIA** (0000-1700 & 2300-2400) for: 00, 04, 08, 12, & 16hrs; and **FAR EAST** (0000-1500 & 1900-2400) for: 02, 06, 10, 14, 20, & 22hrs.*
The freqs for ME and AF are similar, as are the freqs for s+seAS and FE. The freqs for the hours either side of a listed hour are also likely to be similar.

TRANSMISSIONS IN ENGLISH appears twice a year in CONTACT, the monthly bulletin of the WORLD DX CLUB. Samples of CONTACT can be obtained for 80p or 3 IRCs from *Arthur Ward, 17 Motspur Drive, NORTHAMPTON, England, NN2 6LY* or for US$2.00 from *Richard D'Angelo, 2216, Burkey Drive, WYOMISSING, PA 19610, USA.*

TRANSMISSIONS IN ENGLISH was compiled by Alan Roe from monitoring, from schedules received direct, and with the invaluable help of the following contributors:
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I would appreciate a copy of any publication reprinting TRANSMISSIONS IN ENGLISH. Thanks.

Updates, corrections, suggestions for future issues are welcomed by: Alan Roe, 98 Drakes Drive, ST.ALBANS, Herts, AL1 5AD, England.

0000-0015< R.SOFIA [EU/AM] 7225 9700 11720
0000-0027 R.PRAGUE [NAM] 7345 9580 11990
0000-0030<> HCJB, ECUADOR [WW] 21455ssb
0000-0030< R.VATICANA [EU] {mx} 526 1530 5882
0000-0030 SWISS R. INT [S+CAM] 6135 9650 9885 12035 17730
0000-0030 R.NORWAY INT (su/mo) [NAM] 9645
0000-0030 R.VILNIUS [NAM] 7150 7400 9530 9710 10344ssb 17605 17690
0000-0030 R.AUSTRALIA [PA] 13605 15320 15365 17715 17750
0000-0045< AIR, INDIA [AS] 9910 11745 11785 15110 15145 17830
0000-0050 R.PYONGYANG [AM] 11335 13760 15130
0000-0100<> BBC WS [WW] 198Dr 648U 1197L 1413Ms+ 5965Cy* 5965Cy+ 5975An 6005A 6175Sa 6195Kr+ 7315*Tk 7325Ra 7325Sk 7325W 9540Cy+ 9570Kr+ 9580Cy* 9580Ms 9590D* 9590Sa+ 9915Ra 9915Sk 9915W 11750A 11945H+ 11955Ms* 15260A 15280H+ 15310Cy* 15360Kr (+ = -0030; * = 0030-)
0000-0100< KHBN, PALAU 9830
0000-0100< AWR, COSTA RICA 5030 9722.5
0000-0100 WINGS OF HOPE, ISRAEL 11530 *("University Network")*
0000-0100 CHINA R.INT [NAM] 9770Ma 11715Ma

0000-0100<> R.MOSCOW WS [NAM]: 6000 6045 7115 9750 9870 12050 15425 21480
[AU]: 9695 9725 9885 11895 17570 17620 17655 17825 21770 21790
[s+seAS]: 585 648 4940 5985 7110 7120 7135 7170 7220 7255 7285 7295 7305 7355 7390 9480 9530 9625 9655 9685 9695 9715 9725 9735 9755 9885 11655 11775 11895 12015 15350 17570 17620 17655 17775 17825 17890 21530 21690 21770 21790

0000-0100 **** VOA [e+seAS/PA] 1575Ba(0030-) 7120P 9770P 11760P 15185P 15290P 17735P 17820P

0000-0100 **** VOA [Carib] 930(-0030) 6130 9455 11695

0000-0100 **** VOA [C+SAM] 1530Be(0030-) 1580Be(0030-) 5995 7405 9775 11580 15120 15205

0000-0100 WYFR, USA [NAM] 6085*
(= Network programmes Mo-Sa)*

0000-0100< WWCR #2, USA 13845

0000-0125< R.NETHERLANDS [NAM] 6020 6165B 11835ssb(0030-)

0000-0200 WHRI, USA [EU/SAM] 7315 9495

0000-0200 UAE R, ABU DHABI [NAM] 9505

0000-0200 R.CANADA INT (mo-fr: -0130) [NAM] 5960 9755

0000-0200 R.HABANA CUBA [NAM] 6060 9815ssb

0000-0200 MONITOR R.
WCSN: 9850
WSHB: 5850 13760
KHBI: 17555 17865

0000-0200 KING OF HOPE, LEBANON 6280
("University Network")

0000-0230 KVOH, USA (mo-fr) 17775

0000-0230 FEBC, PHILIPPINES [seAS] 15450

0000-0300 **** VOA [EU/nAF/ME] 792Kv 1260Rh 1350Bh

0000-0300<> R.NEW ZEALAND INT [PA] 17770

0000-0300<> KCBI, USA 9815(0230-) 15725(-0230)

0000-0300<> RFPI, COSTA RICA 7375 7385usb 13630usb 15030

0000-0300<> R.THAILAND 927 9655 11905

0000-0300> WWCR #1, USA 7435

0000-0300<> WRNO, USA 7355

0000-0300<> KTBN, USA 7510(0200-) 15590(-0200)

0000-0300<> WJCR, USA 13595 7490

0000-0300<> WINB, USA [SAM] 15145

0000-0300<> WEWN, USA [NAM/AS] 9825(0100-) 17510(-0100)
Planned: 9985(01-02)

0030-0045 BBC EbyR [AS/PA] 6195 9570 11945 15280 17830

0030-0055 R.VLAANDEREN INT [N+SAM] 9930 13655

0030-0100 R.AUSTRALIA [PA] 11720 11880 13605 15240 15320 15365 17715 17750 17795 17880 21740

0030-0125 VOIRI, IRAN [NAM] 9022 11790 15260

0030-0130 R.KOREA [AM] 15575

0030-0325 R.NETHERLANDS [AS] 9860M 11655M 7305Ci(-0127) 12025Ci(0130-)

0030-0300> HCJB, ECUADOR [NAM] 9745 15155 17490ssb? 21455ssb

0035-0040 AIR, INDIA [HS] 3925 6045 7160 11830 11920 15120

0045-0100 BBC EbyR [eAS/PA] 17830 21715

0100-0120 RAI, ITALY [NAM] 9575 11800

0100-0130 R.PRAGUE [NAM] 5930 7345 9580

0100-0130 R.SWEDEN [AS/AU] 9695 11820

0100-0130 R.NORWAY INT (su/mo) [NAM] 9565

0100-0130 R.TASHKENT [NAM] 5955 7325 7335 9740

0100-0130 R.YUGOSLAVIA [ecNAM] 9580

0100-0145 R.SOFIA [AM] 7225 9700 11720

0100-0150 DEUTSCHE WELLE [NAM] 6040 6085 6120 6145 9515 9565 9610 9700 9770 11865

0100-0200<> BBC WS [WW] 198Dr 648U 1197L 5965Cy 5975An 6005A 6175Sa 7315Tk 7325Ra 7325Sk 7325W 9580Cy+ 9580Cy*(su-mo) 9590D*(su-mo) 9590D+ 9915Ra 9915Sk 9915W 11750A 11955Ms*(su-mo) 11955Ms+ 15260A 15280H(sa-su) 15310Cy*(su-mo) 15310Cy+ 15360Kr17790Kr 17790Kr 21715H(sa-su) (+ = -0145; * = 0145-)

0100-0200<> R.MOSCOW WS [NAM]: 6000 6045 7115 7150 9870 12050 15425 21480
[AU]: 9695 9725 9885 11895 17570 17620 17655 17825 21770 21790
[ME]: 4940 4975 6110 7110 7275 7295 7305 7340 9565 9725 9755 9775 9885

0100-0200 RAE, ARGENTINA (tu-sa) [NAM] 11710

0100-0200 **** VOA [C+SAM] 930 5995 6130 7405 9455 9775 11580 15120 15205

0100-0200 R.CANADA INT (sa/su) [LAM] 9535 11845 11940 13720

0100-0200 DEUTSCHE WELLE [Carib] 930

0100-0200 R.JAPAN Gen Sce [AS] 11840Ek 15195 17810 17835 17845

0100-0200 AWR, ASIA [AS] 15610

0100-0200 R.UKRAINE INT [NAM] *try:* 4825 6010 6020 6055 6070 6145 7150 7180 7195 7240 9665 9685 9710 9745 9750 9860 11790 12060 15195 17605 17690

0100-0200 R.AUSTRALIA [PA] 11720 11880 15240 15320 15365 17670 17715 17750 17795 17880 21590 21740

0100-0300 WYFR, USA [NAM] 6065* 9505* 15440
*(* = Network programmes Mon - Sat)*

0100-0300 **** VOA [sAS] 7115Co 7205Kv 9740 11705Co 15160Kv 15250Co 17740P 21550p

0100-0300> WWCR #2, USA 5935

0130-0140 V o GREECE (tu-su) [AM] 9395 9420 11645

0130-0200 R.AUSTRIA INT [N+LAM] 9870 9875 13730

0145-0200 R.VATICANA [AS/AU/NZ] 7335(-6/3) 9650 11935(7/3-)

0145-0200 BBC [South Asia Sce] (tu-sa) 9580 11955 15310

0145-0200 BBC [Caribbean Sce] (tu-sa) 9590

0200-0230 R.SWEDEN [NAM] 9695 11705

0200-0230 SWISS R. INT [AM] 6135 9650 9885 12035

0200-0230 **** VOA [C+SAM] (tu-sa) 5995 7405 9775 11580 15120 15205

0200-0230 R.YUGOSLAVIA [wNAM] 9580

0200-0230 R.NORWAY INT (su/mo) [NAM] 9565

0200-0250 DEUTSCHE WELLE [sAS] 1548 6035 7285 9615 9690 11945 12055

0200-0300 AWR-ASIA (sa-su) [AS] 13720

0200-0300 VOFC, TAIWAN [C+NAM/seAS/AU] 5950 9680 9765 11740 11860 15345

0200-0300 IRRS, ITALY (su: -0230) [NAM/EU/AU] 7125

0200-0300<> BBC WS [WW] 198Dr 648U 702Ms 1197L 1413Ms+ 5975An 6005A 6175Sa 6195Cy 7135Cy 7325Ra 7325Sk 7325W 9580Cy+ 9590D+ 9600A 9915Ra+ 9915Sk 9915W 11730Sy 11750A 11955Cy* 11955Ms+ 15260A 15280H(sa-su) 15310Cy 15360Kr 15380Kr+ 17790Kr 21715H(sa-su) (+= -0230; * = 0230-)

0200-0300 R.ROMANIA INT [NAM] 5990 6155 9510 9570 11830 11940

0200-0300<> R.MOSCOW WS [NAM]: 6000 6045 7115 7150 12050 15425 21480
[AU]: 9695 9725 9885 11895 17570 17620 17655 17825 21770 21790
[FE]: 585 648 5985 7110 7135 7170 7340 7390 9480 9530 9655 9685 9695 9715 9725 9735 9755 9885 11655 11775 11895 12015 15315 15350 17570 17610 17620 17655 17755 17825 17890 21530 21585 21690 21770 21790

0200-0300 R.CANADA INT (mo-fr) [LAM] 9535 9755 11845 11940 13720

0200-0330 R.CAIRO [NAM] 9475 11865

0200-0400> CHANNEL AFRICA, RSA [AF] 7270(03-) 11745

0200-0400 MONITOR R.
WCSN: 9350
WSHB: 5850 7395 13760
KHBI: 17555 17865

0200-0400 R.AUSTRALIA [PA] 11720* 11880* 15240* 15320 15365 17670 17715 17750 17795 21525* 21590* 21740*
(= Sport on Saturdays)*

0200-0400 R.HABANA CUBA [NAM] 6060 9655

0200-0400 TWR - BONAIRE [CAM] 800

0200-0500 WHRI, USA [SAM] 9495

0215-0230 AIR, INDIA [HS] 594 3945 4860 6045 7110 7210 11830 15120 15220 17875

0230-0245 BBC EbyR [sAS] 11850 15380 17780

0230-0245 R.PAKISTAN [s+seAS] 9515 17705 17725 21485 21730

0230-0300 R.TIRANA [NAM] 9580 11840

0230-0300 R.PORTUGAL (tu-sa) [N+SAM] 9555 9600 9705 11840

0230-0325 R.NETHERLANDS [AS] 9860M 11655M

0230-0330 R.PILIPINAS 17760 17840 21580

0245-0300 BBC EbyR [eAF] 11845 15420

0245-0300 BBC EbyR [SAM] 5875 6110 9515 11965 15390

0245-0310 R.FINLAND (su: -0300) [NAM] 9560 11755

0250-0315 R.VATICANA [C+NAM] 6095(-6/3) 7305 9605(7/3-)

0255-0400 TWR - BONAIRE [C+NAM] 9535(0300-) 11930

0300-0330 R.PRAGUE [NAM] 5930 7345 9580

0300-0330 R.JAPAN Reg Sce [AM] 15325My 17825 21610

0300-0330 **** VOA [EU/nAF/ME] 1260 5965 15160 15195 17705 17865

0300-0330 **** VOA EUROPE [EU] 1260 5965 15160 15195 17705

0300-0330< WINB, USA (xtu) [SAM] 15145

0300-0350 DEUTSCHE WELLE [NAM] 6045 6055 6085 6120 9535 9545 9640 9705 9770

0300-0400 VOFC, TAIWAN [NAM/seAS/AU] 5950 9680 9765 11745 15345

0300-0400<> BBC WS [WW] 198Dr 639Cy+ 648U 702Ms+ 720Cy+ 1197L+ 1296U 1413Ms 3255L+ 3955Sk 5975An 6005A+ 6175Sa+ 6190L+ 6195Cy+ 6195Ra* 7120Sk 7135Cy+ 7325Ra 7325Sk 7325W 9410Sk 9600A+ 9670Cy+ 9915Sk+ 9915W 11730Sy+ 11750A+ 11760Ms 11955Cy 15260A+ 15280H 15310Ms 15360Kr+ 15380Kr+(mo-fr) 17790Kr+ 21715H (+ = -0330; * = 0330-)

0300-0400<> R.MOSCOW WS [NAM]: 6000 6045 7115 7150 7270 12050 15425
[AU]: 9725 17570 17620 17655 17825 21770 21790
[AF]: 7295 9775 17655

0300-0400 R.JAPAN Gen Sce [seAS/NAM] 5960Sa 15230 17810 17765

0300-0400< WRNO, USA 7355

0300-0400 CHINA R.INT [NAM] 9690E 9770Ma 11715Ma

0300-0400 R.BUDAPEST [NAM] 6110 9585 11910

0300-0400< R.NEW ZEALAND INT [PA] 17770

0300-0430< R.THAILAND 927 9655 11905

0300-0430< HCJB, ECUADOR [NAM] 9745 15155 17490ssb? 21455ssb(-0500)

0300-0430 **** VOA [AF] 621Bo 6035 6155A(0400-) 7265Bo 7280Bo 7405 9575 9885Bo 11780(0400-) 11835 11850Tn 11940Bo 15115 15752(USB)

0300-0500 WYFR, USA [NAM] 6505*? 9505*
*(* = Network programmes Mon - Sat)*

0300-0600<> KCBI, USA 9815

0300-0600<> RFPI, COSTA RICA 7375 7385usb 13630usb 15030

0300-0600<> WWCR #1, USA 7435

0300-0600<> WWCR #2, USA 5935

0300-0600<> KTBN, USA 7510

0300-0600<> WJCR, USA 13595 7490

0300-0600<> WEWN, USA [NAM] 7465(0500-) 7520(-0500)

0300-0600> WINGS OF HOPE, ISRAEL 11530
("University Network")

0300-0630 IRRS, ITALY [NAM/EU/AU] *irreg. tests: 15120*

0315-0345 R.VATICANA [AF] 9695(-31/1) 11625(1/2-)

0330-0400 UAE R.DUBAI [AM] 11945 13675 15400 17890

0330-0400 BBC [Africa Sce] 1197 3255 6005 6190 9600 11730 15420

0330-0400 R.AUSTRIA INT [N+LAM] 9870 9875 13730

0330-0400 R.TIRANA [NAM] 9580 11840

0330-0425 R.NETHERLANDS [NAM] 9590 11720

0330-0430 R.TANZANIA [eAF] 5050

0340-0350 V o GREECE (tu-su) [AM] 9395 9420 11645

0340-0400 R.YEREVAN [NAM] 9870 11790 15580

0345-0355 AIR, INDIA [HS] 4860 6045 7110 11830 15120 15220 17875

0400-0430 R.PRAGUE [NAM/ME/eAF/sAS] 5930 7345 9810 11985 13715

0400-0430 SWISS R. INT [C+NAM] 6135 9860 9885 12035

0400-0430 R.NORWAY INT (su/mo) [NAM] 9565 9650

0400-0430 **** R.ROMANIA INT [NAM] 5990 6155 9510 9570 11830 11940

0400-0430 R.CANADA INT [EU/ME] 6150Si 9505Au 9670Sk

0400-0430< R.MOSCOW WS [EU]: 5950 6165 7150 9450 9490 9580 9665 9870 17860
[NAM]: 6000 7150 9870
[AU]: 17570 17620 17655 17825 21770 21790 21845
[s+seAS]: 585 648 4940 7135 7340 9530 9535 11975 15230 15280 15315 15350 15375 15385 15545 17570 17590 17610 17620 17635 17655 17675 17685 17720 17775 17825 17870 17890 21530 21565 21585 21615 21655 21690 21770 21790 21830 21845

0400-0450 DEUTSCHE WELLE [e+c+sAF/ME] 6065 6130 7150 7225 7275 9565 9665 9765 11765 13770

0400-0450 R.PYONGYANG [seAS] 15180 15230 17765

0400-0450 TRT, V of TURKEY [eNAM] 9445

0400-0500 WRNO, USA 7395

0400-0500 R.AUSTRALIA [PA] 11720* 11880* 15240* 15320 15365 17670 17715 17795 17880(sa+su) 21525*(sa+su) 21590* 21740*
(= Sport on Saturdays)*

0400-0500 R.HABANA CUBA [NAM] 6060? 6180 9655(-0430)

0400-0500<> BBC WS [WW] 198Dr(-0450) 648U(-0415) 1197L+ 1296U(-0445) 1323Cy 3255L+ 3955Sk 5975An 6005A+ 6180Cy 6190L 6195Ra 7105A+ 7325Ra+ 7325Sk+ 7325W+ 9410Ra* 9410Sk 9410W+ 9600A+ 9610A+ 9915W+ 11760Ms 11955Cy+ 12095Sk 15280H 15420Sy+ 15575Cy 17885Sy+ 21470Cy* 21715H
(+ = -0430; * = 0430-)
0400-0500 CHINA R.INT [NAM] 11680F
0400-0500 **** VOA [EU/nAF/ME] 792Kv(-0430) 5995We 6040W 6140W 6873(LSB) 7170W 7200W 11965We 15205Kv
0400-0500 **** VOA [nCAM] (tu-sa) 1530Be 1580Be
0400-0530 R.SOFIA [EU/AM] 7290 9700 11720
0400-0600 MONITOR R.
WCSN: 9840
WSHB: 5850 7395 9870 13760
KHBI: 17555 17780
0400-0600> KVOH, USA 17775 *("University Network")*
0400-0600<> CHANNEL AFRICA, RSA [AF] 7270(-05) 15430
0400-0600> R.NEW ZEALAND INT (su: -0558) [PA] 15120
0400-0600> WMLK, USA (su-fr) [EU] 9465
0415-0445 BBC [for Europe] (th-tu: 0430-) 648
0415-0500 BBC [Africa Sce] 1197 3255 6005 6190 9600 15400 15420 17885
0425-0440 RAI, ITALY [ME] 5990 7275

0430-0500 R.AUM SHINRIKYO [WW] *(via R.Moscow)*
>> See entry for R.MOSCOW 0400-0430 <<
0430-0500 **** VOA [AF] 6035 7265Bo 7280Bo 7405 9575 11850Tn 15115 15752(USB)
0430-0600 TWR, SWAZILAND [AF] 5055(-05) 5965 9655(-0530) 11740

0500-0515 KOL ISRAEL [c+eNAM/wEU] 9435
0500-0530 R.VATICANA [AF] 9695(-6/3) 11625 15090 17730(7/3-)
0500-0530 R.THAILAND 927 9655 *11905(Inactive)*
0500-0545 SWISS R. INT (mo-sa) [EU] 3985 6165 9535
0500-0550 DEUTSCHE WELLE [NAM] 5960 6045 6120 6130 9535 9670 9690
0500-0600<> BBC WS [WW] 1197L 1323Cy 3255L 3955Sk+ 5975An 6005A+ 6180Cy+ 6190L 6195Ra+ 6195Sk+ 9410Ra 9410Sk 9600A+ 9640An 12095Sk 15280H 15310Ms 15400A 15425Sy 15575Cy 17885Sy 21470Cy 21715H
(+ = -0530)
0500-0600<> R.MOSCOW WS [EU]: 5905 5950 6165 7150 7165 7180 7330 7390 9450 9490 9665 9870 9890
[NAM]: 7150 7165 7180 9870
[AU]: 17570 17620 17655 17825 21770 21790 21845
[ME]: 4940 4975 6110 7130 7295 7330 7340 7390 9450 9490 9665 9840 11765 12055 15280 15465 15470 15550 17580 17675 17720 17735 21550 21655 21680 21845
0500-0600 **** VOA [EU/nAF/ME] 792Kv 3980Mu 5995We 6040W 6060We(0530-) 6140W(0530-) 7170W 7200W 11965We 15205
0500-0600 WYFR, USA [NAM/EU/AF] 5985 9660
0500-0600 CHINA R.INT [NAM] 11840Sa
0500-0600 R.JAPAN (Gen Sce) [EU/AF/AS/PA/NAM] 6085Sk 7230Sk 15230 17765 17810 17825 21610
0500-0600 **** VOA [EU/nAF/ME] 792Kv 3980Mu 5995We 6040W 6060We(0530-) 6140W(0530-) 7170W 7200W 11965We 15205
0500-0700 HCJB, ECUADOR [NAM] 11925 21455ssb
0500-0700 R.AUSTRALIA [PA] 6020(0630-) 11720* 11880* 15240* 15320 15365 17670 17715 17795(-06) 17880 21525* 21590* 21740*
(= Sport on Saturdays)*
0500-0600 **** VOA [EU/nAF/ME] 792Kv 3980Mu 5995We 6040W 6060We(0530-) 6140W(0530-) 7170W 7200W 11965We 15205
0500-0700 **** VOA [AF] 6035 7405 9530(0600-) 9575 9885Bo 11850Tn(-0600) 11915(0600-) 15115 15600Bo 15752(USB)
0500-0700 R.HABANA CUBA [NAM] 9510
0500-0800 WHRI, USA [SAM/EU] 7315 9495

0530-0545 BBC EbyR [seEU] 6010 6050 7270
0530-0545 BBC EbyR [nAF] 7285 9915
0530-0600 BBC [Europe Sce] 198 648 3955 3975 6010 6180 6195 15325
0530-0600 AWR-EUROPE [nwEU] 15125Sm
0530-0600 UAE R.DUBAI [AS/AU] 15435 17830 21700
0530-0600 R.FINLAND (mo-sa: -0545) [EU/ME/AF] 252* 558* 963* 6120* 11755 15440
*(* = Sunday only)*
0530-0600 R.AUSTRIA INT [EU/ME/NAM] 6015Sa 6155 13730 15410 21490
0530-0600 **** R.ROMANIA INT [AF] 15340 15380 17720 17745 17790 21665

0600-0615 SWISS R. INT (mo-sa) [EU] 3985 6165 9535
0600-0620 R.VATICANA [EU] 526 1530 6245 7250
0600-0630 BBC [for Europe] (mo) 648
0600-0630 GEORGIAN R. 9565
0600-0630 SWISS R. INT [AF/ME] 9860 13635 17565
0600-0650 DEUTSCHE WELLE [wAF] 11765 13610 13790 15185 15435 17875
0600-0650 R.PYONGYANG [seAS] 15180 15230
0600-0658< R.NEW ZEALAND INT [PA] 9700(su) 15120(mo-sa)
0600-0700<> R.MOSCOW WS [EU]: 1323 5905 6165 7150 7165 7180 7330 9450 9490 9860 9870 9890 13650 15190
[AU]: 17570 17620 17655 17825 21770 21790 21845
[FE]: 7135 7340 9530 15230 15350 17570 17610 17620 17635 17655 17675 17685 17755 17775 17825 17870 17890 21530 21585 21615 21690 21770 21790 21845
0600-0700<> CHANNEL AFRICA, RSA [AF] 15430
0600-0700< WINGS OF HOPE, ISRAEL (mo-fr: -0630) 11530 *("University Network")*
0600-0700<> BBC WS [WW] 639Cy 720Cy+ 1197L 1323Cy 3955Sk 5975An 6180Cy 6190L+(mo-fr) 6195Ra 6195Sk 7150Ra 9410Ra 9410Sk 9600A+(mo-fr) 9640An 11760Ms 11940L+(mo-fr) 11955Kr 12095Sk 15070Sk 15280H 15310Ms 15400A+(mo-fr) 15420Cy*(mo-fr) 15425Sy+(mo-fr) 15575Cy 17790Ms 17830Kr 17885Cy*(mo-fr) 17885Sy+(mo-fr) 21470Cy 21715H
(+ = -0630; * = 0630-)
0600-0700 BBC [Africa Sce] (mo-fr: 0630-) 6190 9600 11940 15400 15420 17885
0600-0700 WYFR,USA [NAM/EU/AF] 5985 7355 9660 13695
0600-0700 R.KOREA [AM] 7275 11810 15170
0600-0700 **** VOA [EU/nAF/ME] 792 3980Mu 5995We 6040W 6060W 6095Tn 6140W 7170W 7325W 11805Kv 11965We
0600-0700 V o MEDITERRANEAN [ME] 1557 9765
0600-0700 **** VOA [EU/nAF/ME] 792 3980Mu 5995We 6040W 6060W 6095Tn 6140W 7170W 7325W 11805Kv 11965We

0600-0800 **** VOA EUROPE [EU] 1197(mo-sa)
0600-0800< KVOH, USA 17775 *("University Network")*
0600-0800 MONITOR R.
WCSN: 5850
WSHB: 7395 9840
KHBI: 17555 17780
0600-0820 TWR, SWAZILAND [AF] 5965(-07) 7200 11740
0600-0900<> WEWN, USA [NAM/AU/AF] 7465
Planned: 5825(0700-0800)
0600-0900<> KCBI, USA 9815
0600-0900<> RFPI, COSTA RICA 7375 7385usb 13630ssb 15030(-0800)
0600-0900<> WWCR #1, USA 7435
0600-0900<> WWCR #2, USA 5935
0600-0900<> WJCR, USA 13595 7490
0600-0900<> KTBN, USA 7510
0600-0900< WMLK, USA (su-fr) [EU] 9465
0615-0700 R.CANADA INT (mo-fr) [EU/AF] 6050Sk 6150 7155Sk 9740Sk 9760 11905Sk

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0630-0640a*** R.ROMANIA INT [EU] 7225 9510 9665 11940 15365
0630-0645 BBC EbyR [nAF] 6110 7295 9915
0630-0700 R.AUSTRIA INT [NAM] 6015Sa
0630-0700 R.VATICANA [AF] 9695(-6/3) 11625 15090 17730(7/3-)
0645-0700 BBC EbyR [EU] 1296 5875 7260 15325
0645-0710 R.ROMANIA INT [PA] 11775 11810 11940 15335 17720 17805 21665
0659-0900> R.NEW ZEALAND INT [PA] 9700

0700-0715 SWISS R. INT [EU] 3985 6165 9535
0700-0730 R.PRAGUE [EU] 6055 7345 9505 11990
0700-0750 R.PYONGYANG [seAS] 15340 17765
0700-0800<> BBC WS [WW] 639Cy 648U 1296U+ 1323Cy+ 1323Cy*(sa-su) 3955Sk+ 5975An+ 6180Cy+ 6190L 6195Ra 6195Sk+ 7150Ra 7325W 9410Ra 9640An 9660Cy*(sa-su) 9760Sk 11760Ms 11940L+ 11955Kr 12095Sk 12095W* 15070Sk 15070W 15280H 15310Ms 15360Kr 15400A 15420Cy+(mo-fr) 15420Sy(sa-su) 15575Cy*(sa-su) 15575Cy+ 17790A* 17790Ms 17790My+ 17830Kr 17885Cy+(mo-fr) 17885Sy(sa-su) 21470Cy*(sa-su) 21470Cy+ 21660A* 21715H
(+ = -0730; * = 0730-)
0700-0800<> R.MOSCOW WS [EU]: 1323 5905 9490 9890 12010 13650 13705 15190 15345 15540
[AU]: 17570 17620 17655 17765 17825 21790 21845
[AF]: 1323 4940 4975 5905 6110 7130 9490 9890 11765 12010 12055 13650 13705 15190 15280 15345 15465 15470 15520 15530 15540 15550 17580 17655 17675 17720 17735 17805 21550 21565 21655 21680 21785 21845
0700-0800 R.JAPAN (Gen Sce) [EU/AF/AS/PA] 5970Sk 6025Sk 15170 17765 17810 17860 21575G
0700-0800 VOFC, TAIWAN [NAM] 5950
0700-0800 WYFR, USA [EU/AF] 7355 9660 13695
0700-0800 R.CENTRAS (su*) [EU] 9710
(su = Last Sun in Month)*
0700-0830 HCJB, ECUADOR [EU] 6205 11735 17490ssb 21455ssb
{+ sPA 0730-: 9745 11925}
0700-0830 R.AUSTRALIA [PA] 6020 11720 11880 15240 15320# 15365# 17630 17715# 17750 21525 21590 21740# *(# = to 0730)*
0700-0900> WINGS OF HOPE, ISRAEL (sa: -0800; xsu) 11530
0715-0730 BBC EbyR [wAF] 11860 15105
0715-0730 BBC EbyR [eEU] 11680 13660 15135 15325 17750 21745

0730-0735 AIR, INDIA [HS] 15165 15250 17850
0730-0745 R.VATICANA (mo-fr) [EU] 526 1530 6245 7250 9645 11740 15210
0730-0755 R.VLAANDEREN INT [EU/AU] 1512 5900 9905 11695
0730-0745 BBC EbyR [w+swEU] 1296 7295 9825
0730-0800 BBC [Africa Sce] 11860 11940 15105
0730-0800 IRRS, ITALY [EU] 7125
0730-0800 AWR-EUROPE [nwEU] 7210Fo
0730-0800 R.PRAGUE [AS/PA] 17725 21705
0730-0900> HCJB, ECUADOR [sPA] 9745 11925 17490ssb 21455ssb
{+ EU -0830: 6205 11735}
0730-1025 R.NETHERLANDS [PA] 9630(-0830) 9720(0930-) 11895
0735-0945 TWR, MONACO (mo-fr:-0920; sa:-0935) [EU] 9480 (may change to 41mb)
0745-0800 R.FINLAND [EU/AF] 252 558 963 6120 9560 11755

0800-0850 R.PYONGYANG [seAS] 15180 15230
0800-0900 R.KOREA [EU] 7550 13670
0800-0900 R.AUSTRALIA [swPA service] 6020 6080 7240 9710 11720
0800-0900 KNLS, USA 7365
0800-0900<> BBC WS [WW] 639Cy+ 639*(fr-su) 648U 1323Cy(sa-su) 6190L*(sa-su) 6190L+ 6195Ra+ 7150Ra+ 7325Ra*(mo-sa) 7325W*(su) 7325W*(su) 7325W+ 9410Ra+ 9410Sk 9640An+ 9660Cy(sa-su) 9760Sk 11760Ms+ 11860A+ 11940L*(sa-su) 11940L+ 11955Kr 12095Sk 12095W+ 12095W*(su) 15070Ra 15070Sk 15070W*(su) 15070W+ 15280H 15310Ms+ 15360Kr 15400A*(sa-su) 15400+ 15420Sy(sa-su) 15575Cy(sa-su) 17640Ra*(mo-sa) 17640Sk 17640W+ 17640W*(su) 17790A+ 17790A*(sa-su) 17790Ms+ 17830Kr 17885Sy(sa-su) 21470Cy(sa-su) 21660A*(sa-su) 21660A+ 21715H
(+ = -0815; * = 0815-)
0800-0900<> R.MOSCOW WS [EU]: 1323 9580 12010 12020 12070 13650 13705 15190 15210 15345 15440 15475 15540 17860
[AU]: 17570 17655 17765 21790 21845
[s+seAS]: 4940 5960 9535 11975 15150 15230 15280 15350 15435 15550 17570 17610 17635 17655 17685 17720 17755 17765 17775 17805 17870 21450 21615 21655 21690 21790 21830 21845
0800-0900 R.PAKISTAN [EU] 17900 21520
0800-0926 KTWR, GUAM (fr: -0912) [AS] 15200
0800-1000 WHRI, USA [SAM/EU] 7315 7355
0800-1000 MONITOR R.
WCSN: 9840
WSHB: 9455 13615
KHBI: 15665 17555
0800-1000 VOA EUROPE [EU/ME] 1197Mu(mo-sa) 1260Rh(-0900)(not tu+th) 5965 15160Kv 15195 17770 17865 21455
0803-0806a CROATIAN R. (su) 6145 9830 13830
0815-0900 IRRS, ITALY (su) [EU/NAM/AU] 7125
0820-0850 TWR, SWAZILAND (sa-su) [AF] 7200 11740(-0835)

0830-0840 AIR, INDIA [HS] 7110 7210 9610 11970 15165 15250 17705 17795 17850

0830-0900 R.AUSTRALIA [PA] 5995 9560 9580 17630 17750 21590 25750
0830-0900 R.AUSTRIA INT [EU/AU] 6155 13730 15450 21490
0840-0850 V o GREECE (mo-sa) [AU] 15650 17525
0850-0910 AIR, INDIA [HS] 7210 9610 11970 15165 15250 17705 17795 17850
0855-0900 R.FINLAND (su) [AU/seAS] 17800 21550

0900-0930 R.FINLAND (mo-sa) [AU/seAS] 17800 21550
0900-0930 SWISS R. INT [AU/PA] 9560 13685 17670 21770
0900-0950 DEUTSCHE WELLE [e+c+sAF] 9565 15410 21600
0900-0950 DEUTSCHE WELLE [AS/PA] 6160 11715 17780 17820 21465 21650 21680
0900-1000< WEWN, USA [NAM/EU] 7465
0900-1000<> BBC WS [WW] 639Cy(fr-su) 648U 1323Cy 6190L 6195Kr 7325+(mo-sa) 7325W+(su) 9660Cy 9740Kr 9750Sk 9760Sk 11750Kr 11760Ms 11765H+ 11940L 11955Kr+ 12095Sk 12095W#(su) 12095W@ 15070Ra* 15070Sk 15070W#(su) 15070W@ 15190A 15280H+ 15310Ms 15360Kr+ 15400A 15420Sy 1575Cy 17640Ra#(mo-sa) 17640Sk 17640W@ 17640W#(su) 17705Sk 17790A 17790Ms 17885Sy 21470Cy 21660A 21715Kr (+ = -0915; # = -0930; @ = 0930-; * 0945-)
0900-1000<> R.MOSCOW WS [EU]: 1323 12010 12020 12070 13650 13705 15190 15210 15345 15440 15475 15495 15540 17565 17860 21755
[AU]: 9780 11710 17695 17765 21845
[ME]: 4940 4975 6110 7130 9755 11765 12020 12055 13650 15175 15280 15435 15440 15465 15470 15475 15495 15520 15530 15550 17565 17600 17625 17735 17805 21550 21630 21655 21680 21755 21785 21825 21845
0900-1000 R.JAPAN Gen Sce [AS] 11815 11890 21610
0900-1000 R.JAPAN Reg Sce [AU] 15270 17860
0900-1000 CHINA R.INT [sPA] 11755 15440 17710
0900-1030 R.TANZANIA [eAF] 5050
0900-1100 R.AUSTRALIA [PA] 5995 9510# 9580 13605# 15170# 21725 *(# = to 1000)*
0900-1100< WWCR #1, USA 7435
0900-1100 KHBN, PALAU 9830
0900-1100 FEBC, PHILIPPINES [seAS] 11690
0900-1100< WINGS OF HOPE, ISRAEL (mo-fr) 11530
0900-1130< HCJB, ECUADOR [sPA] 9745 11925 17490ssb 21455ssb
0900-1200<> KCBI, USA 9815
0900-1200<> RFPI, COSTA RICA 7375 7385usb 13630ssb
0900-1200> KING OF HOPE, LEBANON (mo-fr) 6280
0900-1200< WWCR #2, USA 5935
0900-1200<> WJCR, USA 13595 7490
0900-1200<> KTBN, USA 7510
0900-1207< R.NEW ZEALAND INT [PA] 9700
0910-0940 R.ULAANBAATAR [PA] 11850 12015
0910-1000 KTWR, GUAM 11805
0915-0930 BBC EbyR [eEU] 11680 13745 15135 15340 17750 21745
0915-1000 BBC EbyR [AS/PA] 7180 11765 11955 15360

0930-0935 AIR, INDIA [HS] 7210 9610 11970 15165 15250 17705 17795 17850
0930-1125 R.NETHERLANDS [AS] 7260Pe {9810lr or 9860lr}

1000-1025 R.VLAANDEREN INT [EU] 1512 5900 9905
1000-1030 V of VIETNAM 1240 12020 15010
1000-1100 CHINA R.INT [sPA] 11755 15440 17710
1000-1100 AIR, INDIA [AU/NZ/neAS] 15050 17387 17895 21735
1000-1100 CHANNEL AFRICA, RSA [AF] 17780
1000-1100<> BBC WS [WW] 639Cy* 639Cy+(mo-fr) 648U 1323Cy 6190L 6195Kr 9410Ra*(mo-sa) 9410Sk+ 9410Sk*(su) 9660Cy 9740Kr 9750Sk+ 9750Sk*(su) 9750W*(mo-sa) 9760Ra*(mo-sa) 9760Sk+ 9760Sk*(su) 9845Ci 11750Kr 11760Ms 11940L 12095Sk+ 12095Sk*(su) 12095W 15070Sk+ 15070Sk*(su) 15070W 15190A 15310Ms 15400A 15420Sy 15575Cy 17640Sk+ 17640Sk*(su) 17640W 17705Sk+ 17705Sk*(su) 17705W*(mo-sa) 17790A 17790Ms 17830Kr+ 17885Sy 21470Cy 21660A 21715Kr+ (+ = -1030; * = 1030-)
1000-1100<> R.MOSCOW WS [EU]: 12010 12020 12070 13650 15210 15345 15440 15475 17565 21755
[AU]: 9780 11675 11710 17695 21845
[FE]: 9705 9780 9855 11675 11710 15230 17600 17635 17685 17695 17755 21615 21625 21845
1000-1100 **** VOA [EU/nAF/ME] 11740Rh 15160Kv 15195Mu 21455kV 21570We
1000-1100 **** VOA [e+seAS/PA] 5985 11720P 15425P
1000-1200 **** VOA EUROPE [EU] 1197(mo-sa)
1000-1200 **** VOA [CAM] 930(-1030 & 1100-) 9590 11915 15120
1000-1200 WYFR, USA [NAM] 5950* 7355*(1100-)
*(* = Network programmes Mon - Sat)*
1000-1200 MONITOR R.
WCSN: 13770
WSHB: 9455 9495
KHBI: 13625 17555
1000-1300 WHRI, USA [SAM/EU] 7315 9850
1003-1006a CROATIAN R. 6145 9830 13830

1030-1100 AWR-EUROPE [nwEU] 7230Fo
1030-1100 R.AUSTRIA INT [EU/AU] 6155 13730 15450 21490
1030-1100 UAE, R. DUBAI [EU/ME] 13675 15320 15435 21605
1040-1050 V o GREECE (mo-sa) [AS] 15650 17525
1055-1230 TWR - BONAIRE [C+eNAM] 11815 15345

1100-1120 R.PAKISTAN [EU] 17902 21520
1100-1130 V of VIETNAM 1010 7416 9732
1100-1130 KOL ISRAEL [c+eNAM/wEU] 17543
1100-1130 SWISS R. INT [AU/seAS] 13635 15505 17670 21770
1100-1130 RED CROSS BROADCASTING SCE (su*) [EU] 7210
(su = 27/12; 31/1; 28/2)*
1100-1145 SWISS R. INT [EU] 6165 12030
1100-1150 R.PYONGYANG [AM] 6576 9977 11335
1100-1150 DEUTSCHE WELLE [wAF] 15410 17765 17800 17860 21465 21600
1100-1200 **** VOA [e+seAS/PA] 5985 6110P 9760P 11720P 15155P 15425P
1100-1200 CHANNEL AFRICA [AF] 11900
1100-1200<> BBC WS [WW] 639Cy*(mo-sa) 639Cy+ 648U+ 1323Cy 5965Sa+ 5965Sa*(mo-sa) 6190L 6195An 6195Kr 9410Ra(mo-sa) 9410Sk(su) 9660Cy 9700NZ+ 9740Kr 9750Sk(su) 9750W(mo-sa) 9760Ra 9845Ci 11750Kr 11760Ms 11940L 12095Sk(su) 12095W 15070W(su) 15070W 15220An 15310Ms 15400A+ 15420Sy*(mo-sa) 15420Sy+ 15575Cy 17640Sk(su) 17640W 17705Sk(su) 17705W(mo-sa) 17790A 17885Sy 21470Cy 21660A (+ = -1130; * = 1130-)

1100-1200> IRRS, ITALY (su) [EU] 7125
1100-1200> WWCR #1, USA 15685
1100-1200 R.JAPAN Gen Sce [AS/NAM] 6120Sa 9750 11815 11840 21610
1100-1200 R.KOREA [ME] 15575
1100-1200 R.AUSTRALIA [PA] 5995 6020 6080 7240 9510 9580 9710 13605 15170 21725
1100-1200<> R.MOSCOW WS [EU]: 12020 12070 13650 15210 15345 15440 15475 15510 15585 17565 21755
[NAM]: 6000 15210
[AU]: 9780 11675 11710 17695
[AF]: 4940 7130 9745 11765 12020 12055 12070 13650 15210 15280 15345 15435 15440 15465 15470 15475 15510 15520 15530 15550 15585 17565 17600 17625 17735 21550 21630 21680 21755 21785 21825
1100-1330 TWR - BONAIRE (mo-fr: -1300) [CAM] 800
1115-1130 BBC EbyR [eEU] 11815 11970 15125 15340 17750 21745
1120-1130 R.VATICANA (mo-fr) [EU] 526 1530 6245 7250 11740 15210 21665

1130-1145 BBC EbyR [wEU] 648
1130-1157 R.PRAGUE [EU] 6055 7345 9505 11990 15355
1130-1200> HCJB, ECUADOR [N+SAM] 11925 15115 17490ssb 17890 21455ssb
1130-1200 R.KOREA [AM] 11715Sa
1130-1230 VOIRI, IRAN [AS/ME] 702 765 1224 9525 9685 11745 11930 11970
1130-1230 R.THAILAND 927 9655 *11905(Inactive)*
1130-1300 R.SOFIA [EU/ME] 11630 11720 13670 17780 17825
1130-1325 R.NETHERLANDS [EU] 5955
1135-1150 AIR, INDIA [HS] 7210 9610 11970 15165 15250 17705 17795 17850

1200-1215 BBC EbyR [AS] 6065 9605 11920
1200-1230< KING OF HOPE, LEBANON (mo-fr) 6280
1200-1230 R.NORWAY INT (sa/su) [AS/AU] 17860 21705
1200-1230 R.TASHKENT [AS] 7235 9540 15470 17815
1200-1230 R.ULAANBAATAR (mo+th+sa) [FE] 11850 12015
1200-1300<> BBC WS [WW] 639Cy(mo-th:-1245; fr-sa:-1215; xsu) 648U 1323Cy 6195An 6195Kr 9410Sk 9515Sa 9660Cy 9740Kr 9750Sk 9760Sk 9845Ci 11750Kr 11760Ms 11940L 12095Sk 12095W 15070Sk 15070W 15220An 15310Ms 15420Sy(-1215 & 1245-)(mo-sa) 15575Cy 17640Sk 17640W 17705Sk 17790A 17885Sy 21470Cy 21660A
1200-1300<> R.MOSCOW WS [EU]: 1323 11850 11980 12020 12070 13650 13705 15210 15345 15440 15475 15510 15540 15585 17840 21755
[NAM]: 6000 15210 17840
[AU]: 9780 11675 11710 15520
[s+seAS]: 630 720 5940 5950 5960 7160 7260 7380 9705 9745 9780 9855 11675 11710 11775 12025 15280 15520 17600 21615
1200-1300 CHINA R.INT [eNAM/sPA/seAS] 1341 9715 11660 11795 15210 15440
1200-1300 WYFR, USA [NAM] 5950* 7355 11830* 17760* *(* = Network programmes Mon - Sat)*
1200-1300 R.AUSTRALIA [PA] 5995 6020 6080(-1230) 7240 9560(1230-) 9580 9710 21725
1200-1320 RADIOBRAS, BRAZIL [NAM] 15445
1200-1400< WWCR #2, USA 5935
1200-1400 **** VOA [e+seAS/PA] 1143P(-1230) 6110P 9760P 11715P(-1330) 15155P 15425P
1200-1400 MONITOR R.
WCSN: 17510
WSHB: 9495 13760
KHBI: 13625 15665
1200-1430 KHBN, PALAU 9830
1200-1500>** VOA EUROPE [EU] 1197
1200-1500<> HCJB, ECUADOR [N+SAM] 11925 15115(-1430) 17490ssb 17890 21455ssb
1200-1500<> KCBI, USA 9815(-1400) 15375(1400-)
1200-1500<> RFPI, COSTA RICA 7375 13630usb 15030(1400-)
1200-1500< IRRS, ITALY (su) [EU] 7125
1200-1500<> WWCR #1, USA 15685
1200-1500<> WJCR, USA 13595 7490
1200-1500<> KTBN, USA 7510
1208-1500> R.NEW ZEALAND INT (occ) [PA] 9510 *(Sport)*
1215-1230 BBC EbyR (su) [w+swEU] 1296 6125 9600 15115
1215-1250 BBC EbyR (fr-sa) [ME] 639 702 720 7140 13660 15590 17785
1215-1315 R.KOREA [AM] 9750
1215-1330 R.CAIRO [sAS] 17595

1230-1235 AIR, INDIA [HS] 3925 6045 9615 11770 15145
1230-1245 V o GREECE [EU/AM] 15635 15650 17515
1230-1255 R.VLAANDEREN INT (su) [seAS/NAM] 17750 21810
1230-1300 BBC EbyR [EU] 1296 6125 9560 9600 9635 11680 11710 11845 15115 17695 17875 21735
1230-1300 V of VIETNAM 1240 12020 15010
1230-1300 R.YUGOSLAVIA [ecNAM/AU] 17740 21605
1230-1300 R.BANGLADESH 15200
1230-1300 R.FRANCE INT [eNAM/CAM/c+eEU] 9805 11670 15155 15195 15365 21645
1230-1300 R.AUSTRIA INT [EU/AS/NAM] 6155 13730 15450 17730
1230-1300 R.FINLAND (mo-fr) (tu-fr: -1250) [NAM] 11735 15400

1300-1330 R.NORWAY INT (sa/su) [EU/wAF] 9590 25730
1300-1330 SWISS R. INT [seAS] 7480 11690 13635 15505 17670 21820
1300-1350 R.PYONGYANG [EU] 9345 11740
1300-1355 POLISH R. WARSAW 1503 6135 7145 9525 11815
1300-1400<> BBC WS [WW] 648U 1197L 1323Cy 1413Ms 6190L 6195An 6195Kr 6195Ra 7180H 9410Sk 9515Sa 9660Cy 9725Tk* 9750Sk 9760Sk 11750Kr 11760Ms 11940L 12095Sk 12095W 15070W 15070Sk 15105A+ 15220An 15310Ms 15420Sy 15575Cy 17640Sk 17640W 17705Sk 17790A 17885Sy 21470Cy 21660A
(+ = -1345; * = 1330-)
1300-1400<> R.MOSCOW WS [EU]: 1323 9890 11980 13705 15210 15345 15440 15540 17840 21755
[NAM]: 11840 15210 17840
[AU]: 9780 11675 11710
[ME]: 4940 7130 9725 9745 9840 11715 11765 11980 15440 17860 21680 21755 21785
1300-1400 R.ROMANIA INT [EU] 11940 15365 17720 17850
1300-1400 WHRI, USA [SAM/EU] 9465 11790
1300-1400 CHINA R.INT [wNAM/sPA/seAS] 1341 7405 9715 11660 15440
1300-1400 KNLS, USA 7355
1300-1400 R.CANADA INT (mo-fr) [NAM/Carib] 9635 11855 17820

1300-1430 R.AUSTRALIA [PA] 5995 7240 9580 11800 11855 13755
1300-1500 WYFR, USA [NAM] 5950*(-1400) 9705 11830* 13695(-1400) 17760*
*(* = Network programmes Mo-Sa)*
1300-1500 KJES, USA [NAM] 11715
1300-1500 WINGS OF HOPE, ISRAEL 11530
1300-1500> WHRI, USA 9465
1300-1500> WEWN, USA [NAM/AF] 9870 21670 *(Planned)*
1300-1600 FEBC, PHILIPPINES [seAS] 11995
1302-1502 WYFR, USA [AS] 11550

1330-1355 R.FINLAND (mo-fr) [NAM] 15400 21550
1330-1400 R.AUSTRIA INT [AS] 17730 15450
1330-1400 R.SWEDEN [AS/AU] 15420 21625
1330-1400 SWISS R. INT [EU] {mx} 3985 6165 9535
1330-1400 R.CANADA INT [AS] 6150X 9535X
1330-1400 TRT, V of TURKEY [swAS] 9675
1330-1400 V of VIETNAM 1240 12020 15010
1330-1400 UAE, R.DUBAI [EU/ME] 13675 15320 15435 21605
1330-1400 R.TASHKENT [AS] 7235 9540 15470 17815
1330-1500 AIR, INDIA [seAS] 11760 15120
1330-1625 R.NETHERLANDS [AS] 9895(1430-) 13770 15150(1430-) 17610
1345-1415 R.VATICANA [AS/AU/NZ] 15090 17525

1400-1415 BBC [East Asia Sce] (mo-fr) 7180 9740 11820
1400-1425 KOL ISRAEL (su-th) [NAM/EU] 11587 11603 15640 15650 17575 17590
1400-1425 R.VLAANDEREN INT (mo-sa) [seAS/NAM] 17550 21810
1400-1430 BBC [for Europe] (SA) 648
1400-1430 BBC EbyR [eAF] 11860 15420 17895 21490
1400-1450 R.PYONGYANG [AM/seAS] 9630 13760 15230
1400-1500<> BBC WS [WW] 648U(sa: 1430-) 1197L 1323Cy 6190L 6195An+ 6195Kr 7180H(sa-su) 9410Sk 9515Sa 9660Cy 9725Tk 9740Kr(sa-su) 9750Sk 9760Sk 11750Kr 11820H(sa-su) 11940L 12095Sk 12095W 15070Sk 15070W 15260Sa 15310Ms 15575Cy 17640Sk 17640W 17705Sk 17790A 17840An 17880A 21470Cy 21660A
(+ = -1430)
1400-1500<> R.MOSCOW WS [EU]: 1323 5905 6055 9890 15210 15345 15440 15540 17840 21755
[NAM]: 7170 7260 9755 9895 11840 15210 17840
[AU]: 11675 12050 15520 15535
[FE]: 630 5960 7135 7330 7335 7380 9705 9855 11675 12025 12050 15420 15520 15535 17730 21615
1400-1700 WHRI, USA [SAM/EU] 9465 15105
1400-1500 CHINA R.INT [wNAM/sAS] 7405 11815 15165
1400-1500 R.KOREA [seAS] 9570
1400-1500 R.FINLAND (mo-fr: 1430-; su: -1450) [NAM] 15400 21500
1400-1500 **** VOA [e+seAS/PA]: 1143P 6110P 9760P 15160P 15425P [EU]: 15205Kv
1400-1500 R.FRANCE INT [AS/ME] 11910Ch 17650 17695
1400-1500 R.JAPAN Gen Sce [AS/NAM] 9535(Y) 9535Ek 11815
1400-1500> WWCR #2, USA 13845
1400-1500 V o MEDITERRANEAN [ME/EU] 11925
1400-1600 MONITOR R.
WCSN: 17510
WSHB: 13760 15665
KHBI: 9530 13625
1400-1700 R.CANADA INT (su) [NAM/Carib] 11955 17820
1400-1700 R.IRAQ INT [AS] 13680
1400-1700 **** VOA [sAS] 1575Ba(1530-1600) 6110P 7125Co 9645Co 9760 15395Co
1415-1500 BBC EbyR (mo-fr) [AS/PA] 7180 9740 11820
1415-1500 BHUTAN BS 5025

1430-1440 AIR, INDIA [HS] 3925 6085(-1435) 7160 7290 9950(-1435) 10330
1430-1530 **** R.ROMANIA INT [AS] 11775 15335 17720
1430-1600 R.AUSTRALIA [PA] 5995 6060 7240 7260 9510 9580 9770(-1530) 11800 11855 13755
1445-1510 R.ULAANBAATAR [sAS] 7260 13780

1500-1530 SWISS R. INT [se+cAS] 13635 15505 17670 21820
1500-1530 BBC [Africa Sce] (mo-fr: 1515-) 11860 15420 17790 17895 21490
1500-1530 R.OMDURMAN 576 7200 9170
1500-1550 DEUTSCHE WELLE [e+c+sAF] 9735 11965 13610 17735 17765 21600
1500-1550 R.PYONGYANG [EU/ME/AM] 9325 9640 9977 13785
1500-1600 CHINA R.INT [sAS] 11815 15165
1500-1600 WYFR, USA [NAM] 11830* 15215 17760*
*(* = Network programmes Mon - Sat)*
1500-1600< HCJB, ECUADOR [N+SAM] 11925 17490ssb 17890 21455ssb
1500-1600<> BBC WS [WW] 648U 1197L 1323Cy 6195Kr 6195Ra 6195Sk 7180H 7215Ms* 9410Sk 9515Sa 9660Cy+ 9725Tk@ 9740Kr 9750Sk 9760Sk 11750Kr 11940L 12095Sk 12095W 15070W 15070Sk 15260Sa 15310Ms 15400A 15420Sy+(mo-fr) 17640Sk+ 17705Sk 17790A+(mo-fr) 17840An 17880A 21470Cy 21660A
(+ = -1515; * = 1515-; @ = -1545)
1500-1600<> R.MOSCOW WS [EU]: 1323 5905 5920 6055 7115 7155 7170 7185 7290 7360 7390 9590 9890 15210 15540 21755
[NAM]: 7170 7250 7260 9755 9895 11840 15210
[AF]: 1323 4940 4975 5905 5920 6055 7115 7155 7170 7185 7290 7335 7360 7390 9590 9725 9890 11930 12045 12060 12065 15210 15465 15480 15540 21755
1500-1600 **** VOA [EU/nAF/ME] 1260Rh 1350Bh 9700Kv 15205W 15260Kv 18782(LSB)
1500-1600<** VOA EUROPE [EU] 1197
1500-1600 WEWN, USA [NAM/AF/EU] 9870 18930 21670 *(Planned)*
1500-1600 R.JAPAN (Gen Sce) [NAM/sAF] 9535 15355G
1500-1600 V o ETHIOPIA 7165 9560
1500-1630 WINGS OF HOPE, ISRAEL (xsu) 11530
1500-1649< R.NEW ZEALAND INT (occ) [PA] 9510 *(Sport)*
1500-1653 KTWR, GUAM (mo-sa: -1635) [AS] 15610
1500-1700< WHRI, USA 9465
1500-1800<> KCBI, USA 15375
1500-1800<> RFPI, COSTA RICA 7375 13630usb 15030
1500-1800<> WWCR #1, USA 15685
1500-1800<> WWCR #2, USA 13845
1500-1800<> WJCR, USA 13595 7490
1500-1800<> KTBN, USA 7510(-1600) 15590(1600-)
1502-1505 R.FINLAND (mo-sa) [EU/ME/AF] 252 558 963 6120 9730 11755 15440 21550
1515-1530 R.CANADA INT [EU] 9555Sk 11915Si 11935Sk 15315# 15325Si 17820# 21545
(# = Mon - Sat)
1525-1530a R.VERITAS, ASIA [AS] 15140

1530-1540 V o GREECE (mo-sa) [EU] 15630 15650 17525
1530-1545 BBC EbyR (mo-fr) [AS] 6065 7105 11920

1530-1545 AIR, INDIA [HS] 1134 3925 3945 7160 7290 7412 9715 9950 10330
1530-1600 R.AUSTRIA INT [EU/AS/AF] 6155 11780 13730 21490
1530-1600 R.VATICANA (xfr+su)[EU]{mx} 526 1530 6245 7250
1530-1600 R.PORTUGAL (mo-fr) [ME] 21515
1530-1625 R.NETHERLANDS [AS] 9895 13770 15150 17610
1530-1800> R.TANZANIA [eAF] 5050
1545-1600 R.VATICANA [AS/AU/NZ] 15090 17865

1600-1630 R.VATICANA (sa) [ME/AS/AU/NZ] 15090 17730
1600-1630 R.SWEDEN [EU/AF/ME/NAM] 15270 17870 21500
1600-1630 V of VIETNAM 12020 15010
1600-1630 R.JORDAN 9560
1600-1630 GEORGIAN R. 11805
1600-1630 R.NORWAY INT (sa/su) [ME/AF] 11875 15230
1600-1630 R.PAKISTAN [ME] 11570 13685 15515 15555 17558 17725
1600-1640 UAE, R.DUBAI [EU/ME] 11795 13675 15320 21605
1600-1650 DEUTSCHE WELLE [sAS] 1548 6170 7225 7305 9585 11785 15105 15595
1600-1655 POLISH R. WARSAW 7285 9525 11840
1600-1700<> BBC WS [WW] 648U+ 1197L 1296U+ 3915Kr 5975Kr* 6195Kr+ 6195Ra 6195Sk 7180H+ 7215Ms 9410Sk 9515Sa 9630Sy* 9725Tk@ 9740Kr 9750Sk+ 9760Sk+ 11750Kr+ 11940L 12095Sk 12095W 15070Sk 15070W 15260Sa 15310Ms 15400A 15420Sy* 17705Sk+ 17840An+ 17860A 17880A 21470A* 21470Cy+ 21660A
(+ = -1615; * = 1615-; @ = 1630-)
1600-1700<> R.MOSCOW WS [EU]: 1494 6000 6055 6130 7115 7150 7155 7170 7185 7205 7330 7420 9590 9890
[NAM]: 7170 7250 7260 9540 9755 9895 11840
[s+seAS]: 1125 1269 7265 7335 7370 9830 11655 11685
1600-1700 R.KOREA [ME/AF] 5975 9870
1600-1700 CHINA R.INT [e+sAF] 11575 15110Ma 15130Ma
1600-1700 R.FRANCE INT [wEU/ME/AF] 738 6175 11705(F) 11705G 12015G 15530 17620 17795 17850
1600-1700 WYFR, USA [NAM/EU/AF] 11830* 15215 15355 17760* 21525 21615
*(* = Network programmes Mon - Sat)*
1600-1700 AWR-ASIA [AS] 11980
1600-1700 TWR, SWAZILAND [AF] 9500
1600-1700 **** VOA [EU/nAF/ME] 792Kv 1350Bh 9700Kv 11855 15205W 15260Kv 18782(USB) 19261(USB)
& 1630-: 6040W 15245We 17735Tn
1600-1800 **** VOA [sAS] 6110P 7125Co 9645 9760P(-1700) 15395
1600-1800 **** VOA [AF] 621Bo(1730-)(mo-fr) 11920P 11995P 15195A(-1700) 15410 {15445Bo or 15495Bo} 15580 17650Bo 17800 17895Tn
1600-1800 CHANNEL AFRICA, RSA [AF] 5960 15430
1600-1800> WRNO, USA 15420
1600-1800 R.AUSTRALIA [PA] 5995 6060 6080(1700-) 7240 7260 9560 9580 11800(-1630) 11855(-1630) 11880 11910(1700-) 13755
1600-1800 MONITOR R.
WCSN: 21640
WSHB: 15665 17555
KHBI: 11580
1600-1800 KING OF HOPE, LEBANON (su) 6280
1600-1800> BSKSA, SAUDI ARABIA [EU/ME] 9705
1600-1800> WEWN, USA [NAM/AF] 13615 21670
(Planned)
1600-1700> WINB, USA [EU] 15295
1615-1630 BBC EbyR [wEU] 648
1620-1630 R.ESTONIA [EU] 1035 5925

1630-1657 R.CANADA INT [AS] 7150X 9555X
1630-1700 R.TIRANA 7155 9760
1630-1700 R.AUSTRIA INT [AS] 11780
1630-1800 HCJB, ECUADOR (sa: 1700-1745; su: 1630-1745) [ME] 15270 17490ssb 17790 21455ssb(-18 dly)
1630-1830 R.CAIRO [c+sAF] 15255
1650-1849 R.NEW ZEALAND INT (su-fr) [PA] 9675

1700-1715 BBC [South Asia Sce] 1413 5975 7215 9605 11750
1700-1730 BBC EbyR [EU] 648(1715-)(mo-fr) 6125 7270
1700-1730 R.NORWAY INT (sa/su) [EU] 9655
1700-1730 SWISS R. INT [cAS/ME/eAF] 9885 13635 15430 17635
1700-1730 SWISS R. INT [EU] 3985 6165 9535
1700-1730 RED CROSS BROADCASTING SERVICE (mo*) [EU] 7210
(mo = 28/12; 1/2; 1/3)*
1700-1730 R.CANADA INT [EU] 5995Sk 7235Sk 13650 15325 17820 21545
1700-1730 AWR-EUROPE [EU] 15125Sm
1700-1730 TWR, SWAZILAND [AF] 9520
1700-1745 BBC [Africa Sce] 1197 6190 9630 11940 15400 15420 17860 17880
1700-1750 R.PYONGYANG [EU/ME/AF] 9325 9640 9977 13785
1700-1800<> WINB, USA (sa: -1730; su: 1730-) [EU] 15295
1700-1800<> BBC WS [WW] 1197L* 1323Cy 1413Ms* 3915Kr+ 3955Sk 5975Kr@ 6180Cy 6190L* 6195Ra 6195Sk 7160Ms@ 9410Sk 9515Sa+ 9740kR 11940l* 12095sK 12095w 15070Sk 15070W 15260Sa+ 15310Ms 15400A* 15420My* 17880A* 21470A# 21660A+
(# = -1715; @ = 1715-;
+ = -1745; * = 1745-)
1700-1800<> R.MOSCOW WS [EU]: 7170 7205 7330 7340 7420 9590 9685 9860 9890
[NAM]: 7170 7250 7260 9540 9685 9755 9860 9895 11840
[AF]: 7170 7205 7330 7340 7420 9515 9590 9685 9830 9860 9890 12060
1700-1800 CHINA R.INT [e+sAF] 9570 11575 15345
1700-1800 AWR-ASIA (sa-su) [AS] 13720
1700-1800 V o AZERBAIJAN [EU] 6175
1700-1800 KVOH, USA (sa) 17775
1700-1800> WHRI, USA 13760
1700-1800 R.JAPAN (Gen Sce) [AS/NAM/ME/nAF] 7140 9535 11815 17775Ek
1700-1800 **** VOA [EU/nAF/ME] 1350Bh 6040W 9700Kv 9760 15205Tn 15260Kv 18782(USB) 19261(USB)
1700-1800 **** VOA [sAS] 6110P 7125Co 9645Co 15395Co
1700-1800 R.PAKISTAN [EU] 9430 11570 15555
1700-1800 R.ALGERIA [eAF] 9535 17745
1700-1800> WMLK, USA (su-fr) [EU] 9465
1700-1800 WHRI, USA [SAM/EU] 13760 15105
1700-1900 WYFR, USA [EU/AF] 21500
1715-1730 BBC [for Europe] (SU) 648
1715-1730 R.VATICANA [EU] 526 1530 6245 7250 9645

1730-1735 AIR, INDIA [HS] 3905 3925 7160 7290 10330

1730-1800> R.KUWAIT [EU/NAM] 13620
1730-1800 R.VATICANA [AF] 11625 15090 17730
1730-1800 **** R.ROMANIA INT [AF] 15340 17745
1730-1925 R.NETHERLANDS [AF] 6020 9605 21515 21590
1730-1930 R.PILIPINAS 15190 17840 21455 *(occ English)*
1745-1800 BBC EbyR [AS] 7215 9605 11750
1745-1945 AIR, INDIA [EU/AF] 7412 9950 11620 11860 11935 15080

1800-1813 V o LEBANON [ME] 6550
1800-1815 KOL ISRAEL [NAM/EU/AF] 7465 11587 11675 17575
1800-1827 R.PRAGUE [EU] 5960 6055 7345 9605
1800-1830 V of VIETNAM [EU] 12020 15010
1800-1855 POLISH R. WARSAW 7270 9525
1800-1900<> BBC WS [WW] 1197L+ 1323Cy 1413Ms+ 3255L* 3955Sk 5975Kr+ 6180Cy 6190L+ 6195Ra 6195Sk 7160Ms+ 9410Ra 9410Sk 9740Cy* 9740Kr+ 11750Ms+ 11940L+ 11955Kr 12095Sk 12095W 15070Sk 15070W 15310Ms+ 15400A+ 15420My 17880A (+ = -1830; * = 1830-)
1800-1900<> R.MOSCOW WS [EU]: 1215 6130 7330 7420 9590 9685 9860 9890 13670
[NAM]: 7170 7250 7260 9685 9755 9860 11840 12050
[AU]: 7145 9565 9625 9725 9855 9875 11685
1800-1900<> HCJB, ECUADOR [WW] 21455ssb
1800-1900 RAE, ARGENTINA (mo-fr) [EU] 15345
1800-1900 R.CANADA INT (mo-fr: -1830) [AF] 13670 15260 17820
1800-1900 KJES, USA [NAM] 9510
1800-1900 **** VOA [EU/nAF/ME] 1197Mu 1350Bh 3980Mu 6040W 9700Kv 9760 15205Tn 18782(LSB) 19261(USB)
1800-1900 AWR-ASIA (sa-su) [AS] 13720
1800-1900 R.OMDURMAN 9170
1800-1915< R.TANZANIA [eAF] 5050
1800-1920 RADIOBRAS, BRAZIL [EU] 15265
1800-2000 **** VOA [AF] 621Bo 9570P(1900-) 11920P 11995P 15410 15495Bo(1900-) 15580 17650Bo 17800 17895Tn
1800-2000 MONITOR R.
WCSN: 21640
WSHB: 13770 15665 17555
KHBI: 9355 13840
1800-2000 R.IRAQ [EU] 13680 15210
1800-2000< WEWN, USA [NAM/EU] 13615 13710 *(Planned)*
1800-2045 TWR, SWAZILAND [AF] 3200 3240(1900-) 9500(-1845)
1800-2100< BSKSA, SAUDI ARABIA [EU] 9705
1800-2100 R.AUSTRALIA [PA] 5995 6010 6060 6080 7240 7260 9580 11720(1900-) 11855(1900-) 11880 11910(-2030)
1800-2100< R.KUWAIT [EU/NAM] 13620
1800-2100 KVOH, USA 17775
1800-2100> KING OF HOPE, LEBANON 6280
1800-2100<> KCBI, USA 15375
1800-2100<> WHRI, USA 13760
1800-2100<> KTBN, USA 15590
1800-2100<> WRNO, USA 15420
1800-2100<> WMLK, USA (su-fr) [EU] 9465
1800-2100> IRRS, ITALY [EU] 7125
1800-2100> WHRI, USA [SAM/EU] 13760 17835
1800-2100<> RFPI, COSTA RICA 7375 13630usb 15030
1800-2100<> WWCR #1, USA 15685
1800-2100<> WWCR #2, USA 13845
1800-2100<> WJCR, USA 13595 7490
1800-2100< WINB, USA [EU] 15295

1830-1900 R.AFGHANISTAN [EU] 9635
1830-1900 R.BANGLADESH [EU] 9570 12020
1830-1930 BBC [Africa Sce] (mo-fr: -1900) 6005 6190 9630(-1900) 15400
1830-2000 R.SOFIA [EU] 6235 9560 9700 11720
1840-1850 V o GREECE [AF] 15630 17525
1850-2138 R.NEW ZEALAND INT (su-fr) [PA] 15120 (sa: 2100- 17770)

1900-1915 DEUTSCHLANDFUNK (we+sa) [EU] 1269
1900-1925 R.VLAANDEREN INT [EU/AF] 1512 5900 15540
1900-1930 R.NORWAY INT (sa/su) [AF/SAM/NZ] 15220 17730
1900-1930 R.CANADA INT (mo-fr) [AF] 13670 15260 17820
1900-1930 R.JAPAN Gen Sce [NAM/PA] 9535 11875
1900-1930 V of VIETNAM [EU] 12020 15010
1900-1930 R.RIGA, LATVIA (sa-su) [EU] 5935
1900-1930 R.PORTUGAL (mo-fr) [EU] 11740
1900-1950 DEUTSCHE WELLE [wAF/ME] 9765 11765 11785 11905 13790 15350 17810
1900-2000<> BBC WS [WW] 1197L+(mo-fr) 1323Cy 1413Ms 3255L 3955Sk 6005+(mo-fr) 6180Cy 6190L+(mo-fr) 6195Ra 6195Sk 7160Ms 9410Ra 9410Sk 9630Sy 9740Cy 11955Kr 12095Sk 12095W 15070Sk 15070W 15400A+(mo-fr) 17880A (+ = -1930)
1900-2000<> R.MOSCOW WS [EU]: 7170 7205 9590 9685 9785 9860 9890 13670
[NAM]: 7260 9685 9785 9860 11770 11840 12050 15485 15425 17605
[AU]: 7145 9725 9855 9875 11685
[AF]: 7170 7205 9530 9590 9685 9785 9860 9890 11920 13670
1900-2000 R.ROMANIA INT [EU] 6105 7195 7225 9690
1900-2000 R.KOREA [AS] 6135
1900-2000 HCJB, ECUADOR [EU] 15270 17490ssb? 17790 21455ssb
1900-2000 REE, SPAIN [AF] 15375
1900-2000 CHINA R.INT [w+nAF] 6955 9440
1900-2000 WYFR, USA [EU/AF] 15355 21615
1900-2000 **** VOA [e+seAS/PA] 9525P 11870P 15180P
1900-2000 **** VOA EUROPE [EU] 1197
1900-2100 **** VOA [EU/nAF/ME] 1350Bh(2000-) 3980Mu(-2000) 6040W 9700Kv 9760 15205Tn 18782(LSB) 19261(USB)
1900-2100 R.GALAXY, RUSSIA (xwe) 11880
1905-1915 V o GREECE (mo-sa) [EU] 7450 9400
1915-2000 DEUTSCHLANDFUNK [EU] 1269

1930-1957 R.PRAGUE [EU] 6055 7345
1930-2000 R.ALMA ATA [ ] 5035 5260 17765
1930-2000 KFBS, SAIPAN 9465
1930-2000 R.YUGOSLAVIA [wEU/sAF] 6100 7200 15140
1930-2000 R.FINLAND (sa: -1950) [EU/AF] 252 558 963 6120 9730 11755
1930-2000 R.AUSTRIA INT [EU/ME/AF] 5945 6155 9880 13730
1930-2025 VOIRI, IRAN [EU] 1404 9022 15260
1930-2025 R.NETHERLANDS [AF] 17605 21590
1930-2025 POLISH R. WARSAW 7270 9525
1930-2030 BBC [Africa Sce] 1197 6005 6190 15400
1935-1955 RAI, ITALY [EU] 7275 9710 11800
1940-2010 R.ULAANBAATAR [EU] 11790 11850
1943-1958 R.YEREVAN, ARMENIA [ME] 4810 6065 7390 9675 15130

2000-2030 R.VATICANA [AF] 9645 11625 15090
2000-2030 SWISS R. INT [AF/ME] 9885 12035 13635 15505
2000-2030 KOL ISRAEL [N+SAM/EU] 7465 9435 11587 11603 11675 17575
2000-2030< R.MOSCOW WS [EU]: 4795 7170 7180 7205 9490 9590 9785 9795 9860 9890 13670
[NAM]: 7180 7250 9785 9860 11840 12050 15425 17605 21480
[AU]: 7145 7245 7255 9450 9565 9725 9855 11685 15130 17655
[FE]: 648 5950 7145 7195 7220 7245 7255 7390 9450 9530 9565 9725 9735 9855 11685 15130 17655
2000-2030 R.CANADA INT [EU] 5995Sk 7235Sk 11945 13650 15140 15325 17875
2000-2030 BBC EbyR [sAF] 1197 6005 6190 15400
2000-2030 **** VOA [AF] 621 9570 11820A 15160A 15410 15495Bo 15580 17650Bo 17800 17895 21485
2000-2030 R.PORTUGAL (mo-fr) [AF] 9705
2000-2050 R.PYONGYANG [EU/ME/AF] 6576 9345 9640 9977
2000-2100<> BBC WS [WW] 1413Ms+ 3255L+ 3955Sk+ 5975An 6180Cy+ 6195Ra+ 6195Sk+ 7160Ms 7325W 9410Ra+ 9410Sk 9630Sy+ 9740Cy+ 11955Kr 12095Sk 12095W+ 15070Sk+ 15070W+ 15260A 15340Kr 15400A* 17880A+ (+ = -2030; * = 2030-)
2000-2100 R.ALGIERS [AF] 11715
2000-2100 V o INDONESIA [EU] 9675 11752 11785
2000-2100 CHINA R.INT [EU]: 9920 11500
[w+nAF]: 9440
2000-2130<> HCJB, ECUADOR [WW] 21455ssb
2000-2130 CHINA R.INT [e+sAF] 11715Ma 15110Ma
2000-2200 MONITOR R.
WCSN: 7510
WSHB: 9985 13770 17555
KHBI: 9455 13840
2000-2200 WEWN, USA [NAM/EU] 7540
Planned also: 13615
2000-2300 WYFR, USA [EU/AF] 7355 15566(-2200) 17750 21525
2005-2105 R.DAMASCUS [EU] 12085
2025-2045 RAI, ITALY [ME] 7235 9575 11800

2030-2045 SWISS R. INT [EU] {mx} 3985 6165 9535
2030-2100 V of VIETNAM [EU] 12020 15010
2030-2100 BBC [Africa Sce] 1197 3255 6005
2030-2100 BBC [Europe Sce] 648 5975 6180 6195
2030-2100 R.AUM SHINRIKYO [EU] *(via R.Moscow)*
>> See entry for R.MOSCOW 2000-2030 <<
2030-2100 R.CANADA INT [EU] 5995Sk 7230Sk 11945 13650 15140 15325 17875
2030-2125 POLISH R. WARSAW 1503 6135 7145 7270 9525
2030-2200 **** VOA [AF] 621 9570(-2100) 15410 15495Bo 15580 17650Bo 17800 17895 21485
2030-2200 R.CAIRO [wAF] 15375
2030-2230 KHBN, PALAU 11980
2045-2130 R.SOFIA [EU] 6235 9560
2045-2230 AIR, INDIA [EU/AU/NZ] 7412 9910 9950 11620 11715 15265
2050-2110 R.VATICANA [EU] 526 1530 5882 7250

2100-2127 R.PRAGUE [5960 6055 7345 9605
2100-2130 R.NORWAY INT (sa/su) [SAM/NZ] 15180
2100-2130 R.AUSTRALIA [PA] 5995 6060 6080 9510 9540 9580 11720 11855 11880 13705
2100-2150 TRT, V of TURKEY [EU] 9445
2100-2150 DEUTSCHE WELLE [AS/PA] 6185 9670 9690 9765 11785
2100-2200<> BBC WS [WW] 648U 1197L 1323Cy 3255L 3955Sk 5975An 6005Sy 6180Cy 6195Kr 6195Ra 6195Sk 7180H 7325W 9410Sk 9590Sa 11955Kr 12095Sk 15260A 15340Kr 15400A
2100-2200> R.MOSCOW WS [EU]: 1170 4795 6030 6055 7115 7150 7170 7180 7205 7370 9490 9750 9785 9795 9860 9870 9890 13670
[NAM]: 7150 7180 9750 9785 9860 9870 11840 12050 15425 17605 17665 17690 21480
[AU]: 7145 7245 7255 9450 9565 9695 9725 9855 9885 15130 17570 17655
[AF]: 4795 6030 6055 7115 7150 7170 7180 7205 7370 9490 9750 9785 9795 9860 9870 9890 13670
2100-2200< KING OF HOPE, LEBANON 6280
2100-2200 R.ROMANIA INT [EU] 5955 6105 7195 7225 9690
2100-2200 CHINA R.INT [EU] 9920 11500
2100-2200 REE, SPAIN [EU/NAM] 6125
2100-2200 R.HABANA, CUBA [EU] 15165
2100-2200 R.ALGERIA [cEU] 9535
2100-2200< WMLK, USA (su-fr) [EU] 9465
2100-2200 R.JAPAN (Gen Sce) [EU/AF/PA/AS] 11815 11840 11925G 15195 15280 15430 17810 17890
2100-2200 KVOH, USA (su) 17775
2100-2200 **** VOA [e+seAS/PA] 11870P 15185P 17735P
2100-2200 **** VOA [EU/nAF/ME] 1260Rh 1350Bh 6040W 9700Kv 9760 15205Tn 18782(LSB) 19261(USB)
2100-2230< IRRS, ITALY (mo-th: -2130) [EU] 7125
2100-2245 WINB, USA [EU] 15185
2100-2300< WHRI, USA [SAM/EU] 13760 17835
2100-2300< WRNO, USA 15420
2100-2400< WHRI, USA 13760
2100-2400<> KTBN, USA 15590
2100-2400<> WWCR #1, USA 15685
2100-2400<> WWCR #2, USA 13845
2100-2400<> WJCR, USA 13595 7490
2100-2130< KCBI, USA 15375
2100-2400<> RFPI, COSTA RICA 7375 13630usb 15030
2100-2400 WINGS OF HOPE, ISRAEL 11530
("University Network")
2110-2210 R.DAMASCUS [NAM] 12085
2115-2130 BBC [Caribbean Sce] (mo-fr) 6110 15390 17715
2115-2245 R.CAIRO [EU] 9900

2130-2140 R.RIGA, LATVIA (mo-fr) [EU] 576 5935
2130-2145 BBC [Falklands Sce] (tu+fr) 13660
2130-2200 BBC EbyR [EU] 6125 7125 9770
2130-2200 HCJB, ECUADOR [EU] 15270 17490ssb? 17790 21455ssb
2130-2200 R.ESTONIA (mo+th) [EU] 1035 5925
2130-2200 R.CANADA INT [AF] 11880 15150 17820
2130-2200 R.SWEDEN [EU/AF/ME/AS/AU] 1179 6065 9655 11955 *(-2230 until 17/1)*
2130-2330 R.AUSTRALIA [PA] 9510 9540 11720 11855 11880 13705(-2300) 15320# 15365# 17795# *(# = from 2200)*
2139-2400> R.NEW ZEALAND INT (sa: 2100-) [PA] 17770
2145-2245 R.KOREA [EU/AF] 6480 7550 15575

2200-2215 BBC EbyR [AS] 6080 7160 11865
2200-2225 R.PRAGUE [EU] 5960 6055 7345 9605
2200-2225 R.VLAANDEREN INT [EU] 1512 5900 9905
2200-2225 RAI, ITALY [FE] 5990 9710 11800
2200-2230 SWISS R. INT [SAM] 6030 9810 9885 12035

2200-2230 BBC EbyR [eAS/PA] 7180 7330Ci 7420Ir 9580 11750 11945
2200-2230 R.CANADA INT [AS] 11705Y
2200-2230 R.CANADA INT [EU] 5995Sk 7180Sk 13650
2200-2230 CHINA R.INT [EU] 3985Sw
2200-2245 R.YUGOSLAVIA [EU] 6100 7200? 9505
2200-2300 CHINA R.INT [EU] 7170R
2200-2300 R.UKRAINE INT [EU] *try:* 4795 5905 5940 5960 6010 6020 6055 6130 7195 7240 9660/9665 9785 9820 9865
2200-2300 VOFC, TAIWAN [EU] 9850Wy 11915Wy
2200-2300 R.HABANA, CUBA [Carib] 9655
2200-2300 R.BUDAPEST [EU] 6195 9835 11910
2200-2300<> BBC WS [WW] 648U 1197L 3955Sk 5975An 6195Kr 6195Ra 6195Sk 7325Ra 7325Sk 7325W 9410Sk 9540Cy 9570Kr 9590Sa 9915Ra 9915Sk 9915W 11750A 12095Sk 15260A 15340Kr 15400A
2200-2300<> R.MOSCOW WS [EU]: 1170 4795 4825 4860 5920 5980 6030 6055 6060 7115 7150 7180 7300 7330 9520 9750 9860 9870 9890
[NAM]: 6045 7115 7150 7180 9520 9750 9860 9870 12050 15425 17690 21480
[AU]: 7145 7245 7255 9450 9695 9725 9885 15130 17570 17655 21770 21790
[FE]: 585 648 5985 7135 7145 7150 7220 7245 7255 7285 7295 7390 9450 9480 9530 9685 9695 9725 9735 9885 11655 11775 15130 17570 17655 17825 17870 21770 21790
2200-2300 R.CANADA INT [EU] 9760 11945
2200-2400 **** VOA [e+seAS/PA] 7120P 9770P 11760P 15185P 15290P 15305 17735P 17820P
2200-2400 **** VOA [EU/nAF/ME] 792Kv 1260Rh(2230-) 1350Bh 6095Rh 9530(2230-) 15215We 15255Kv 17810Kv 17885Mu
2200-2400 WEWN, USA [NAM/EU] 5825
Planned also: 13615
2200-2400> KCBI, USA 15725
2200-2400 R.IRAQ INT [EU] 15210
2200-2400<> HCJB, ECUADOR [WW] 21455ssb
2200-2400 MONITOR R.
WCSN: 7510
WSHB: 9465 17555
KHBI: 13625 15405
2200-2400 UAE R, ABU DHABI [NAM] 9605 11710 11815
2200-2400 KING OF HOPE, LEBANON 6280
("University Network")
2203-2206 CROATIAN R. 6210 9830 13830
2215-2245 BBC [for Europe] (sa-mo) 648
2215-2300 R.FINLAND (mo-fr: -2245; sa: -2235) [EU/SAM/eAS] 252 558 963 9730 11740 11810

2230-2300 KOL ISRAEL [N+SAM/EU] 7465 9435 11587 11603 11675 17575
2230-2300 R.VILNIUS, LITHUANIA [EU] 666 1557 9710 9675
2230-2400 KHBN, PALAU (xsa: 2300-2330) 11980
2240-2250 V o GREECE [AM/AU] 9375
2245-2300 BBC EbyR [EU] 1296
2245-2300 BBC EbyR [AS] 6080 7160 11865
2245-2257 R.YEREVAN, ARMENIA [EU] 7440 9480 9850? 11920? 12060
2245-2315 R.VATICANA [AS/AU/NZ] 7310(-6/3) 9600 11830
2245-2345 WINB, USA (we+fr: -2330) [EU] 15185
2245-2400> AIR, INDIA [AS] 9910 11745 11785 15110 15145 17830
2245-2400> R.SOFIA [EU/AM] 7225 9700 11720

2300-2330 R.TIRANA [EU] 1395 9760 11825
2300-2330 R.NORWAY INT (sa/su) [N+CAM] 11795
2300-2350 TRT, V of TURKEY [EU/eNAM/ME] 7185 9445 11895
2300-2350 R.PYONGYANG [AM] 11700 13650
2300-2400<> BBC WS [WW] 198Dr* 648U 1197L 1296U+ 1323Cy+ 3955Sk+ 5975An 6175Sa 6195Kr 6195Ra+ 6195Sk+ 7325Ra 7325Sk 7325W 9410Sk 9540Cy 9570Kr 9590Sa 9915Ra 9915Sk 9915W 11750A 11945H 11955Kr 15260A 15280H 15340Kr+ 15400A+ (+ = -2315; * =2345-)
2300-2400<> R.MOSCOW WS [NAM]: 6045 7115 9870 12050 15425 17665 21480
[AU]: 7145 7255 9450 9695 9725 9885 15130 17570 17655 21770 21790
[s+seAS]: 585 648 5985 7110 7120 7135 7145 7170 7220 7255 7285 7295 7315 7355 7390 9450 9480 9530 9625 9685 9695 9715 9725 9735 9755 9885
2300-2400> R.THAILAND [AS] 927 9655 *11905(Inactive)*
2300-2400> AWR, COSTA RICA 5030 9722.5
2300-2400 WHRI, USA [SAM/EU] 9495 13760
2300-2400 AWR-ASIA [AS] 15610
2300-2400 R.JAPAN (Gen Sce) [EU/AS] 6050Sk 6125Sk 15195 15430
2300-2400 TWR, MONACO (mo+th: -2350; tu+we+fr: -2335; sa: -2320; su: -2400) [EU] 1467
2300-2400 R.CANADA INT (mo-fr: -2330) [LAM/Carib] 9535 9755 11730 11940
2310-2400> R.VATICANA [EU] {mx} 526 1530 5882
2315-2330 BBC EbyR [SAM] 6110 9560 9825 11765 15390

2330-2345 BBC EbyR [AS] 6065
2330-2400 R.AUSTRALIA [PA] 9510 11720 11880 15320 15365 17795
2330-2400 R.AUSTRIA INT [LAM] 9870 13730
2330-2400 SLBC, SRI LANKA [NAM] 15425
2330-2400 R.SWEDEN [EU/AF/ME] 1179 6065
2330-2400> R.NETHERLANDS [NAM] 6020 6165B
2330-2400> KHBN, PALAU 9830
2330-2400 V of VIETNAM [NAM] 1240 12020 15010
2335-2345 V o GREECE [AM] 7450 9395 11645
2345-2357 R.YEREVAN, ARMENIA [EU] 9480 11920? 11980 12050? 15175?
2345-2400> WINB, USA [SAM] 15145
2345-2400 BBC EbyR [SAM] 5875 6110 11765 15390

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gh: Let's hear it for ALAN ROE, who contributed the latest revision of his T I E for this issue. Other versions appear periodically in CONTACT, from the WORLD DX CLUB--if you're looking for an excellent bulletin from the Atlantic Northwest, this is it. See page 15 for details.

CLOSING DATE FOR THIS ISSUE: 20 JANUARY 1993, beginning of a new era for America !

SATELLITE WATCH

by Loren Cox

[9 November 1992] Surely one of the great pleasures/advantages of having one's own satellite access is the potential it affords for reception of international television (and radio). Obviously those fortunate ones who can receive the satellites beyond the North American portion of the Clarke Belt (e.g., the Atlantic Intelsats) are in the best position for this sort of reception. Nevertheless, much television of overseas (or non-domestic) origin may be viewed on that portion of the Clarke Belt that extends from 139 deg. west (Satcom C5) to 69 deg. west (Spacenet 2). This consists of mostly programming for specific ethnic audiences that is downlinked by broadcast stations or Cable companies serving areas with large ethnic or other-nationality populations. We find programming in the form of news (or news magazine) shows from Korea, Taiwan, Portugual (Lisbon & Azores) and Japan. There are also full time or extended time channels offering programming in Japanese, Chinese and Korean. Additionally, from Europe, there have been daily news programmes from RAI, Italy, and TF1, Paris. Canadian television and radio programming for the English, French and aboriginal populations of that country are all avialable to the "disher"; also television and radio programming from Mexico via the Morales satellites (best received in the south/southwestern U.S.).

Also, there are three satellite channels specifically dedicated to a full schedule of programming from other countries: they are the International Channel (VC II+ scrambled), primarily offering entertainment programming; SCOLA, which presents news programmes from the networks of many nations (most of it tape delayed for several days); and SUR, which presents programming provided by Latin American brodacasters.

Now for some time we have hearing about the television service of one of the world's most prestegious of international broadacsting operations, the BBC WORLD SERVICE. And BBC WORLD SERVICE TELEVISION is now being seen, via satellite and Cable, in Europe and Asia, being specifically directed to those areas. It has seemed that a North American audience has not been a top priority in the BBC's plans, tho' we understand the progamming is viewable via Atlantic Intelsat. (As of this writing, the domestic BBC "Nine O'Clock News", as a part of its satellite journey to Australia, may still be seen on tape delay at 6:00 pm EST on a Galaxy 2 transponder - often Ch. 23, but varies - PAL format. This is following a period of Ku Band transmission on the SBS 6 satellite.) But if the BBC have not been that interested in acquiring a North American television audience, that has not been the case with another major international broadcaster, DEUTSCHE WELLE. For, since the latter days of October, DEUTSCHE WELLE FERNSEHEN, has been visible with some 14 hours per day of programming on the new Satcom C4 satellite (135 deg. west), Ch. 5. When programming is not up there is a scrolling billboard with the schedule and other information in regard to the service. Most of the programming in is German, tho' there are also releases in English and Spanish (versions of some of the German programming in those languages). Except for rock video crap, we've found the programming to be very good. The cultural highlight thus far has been a performance of Parsifal, "live" from Berlin, in an avant-garde staging, Barenboim conducting - we would anticipate more of this sort of thing. Could have been better only if stereo audio were being provided - only one subcarrier, at 6.2 MHz, is being used for TV audio. So our C Band "dish", for the past week or so, has mostly been parked down on Satcom C4, which will soon be the new satellite home of a number of "Cable" programming services. C4 is one of the new higher powered C Band satellites that are coming on line, joining the already operating Galaxy 5 (filled with "Cable" programmers), with Satcom C3 to be operative before long.

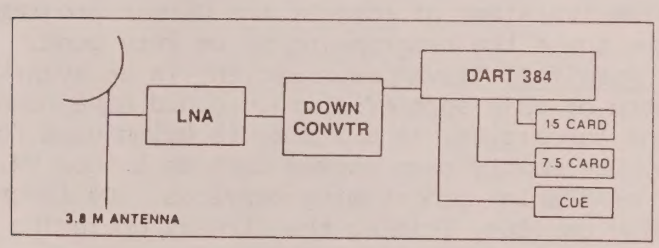
In addition to DWF on C4/5, Radio Deutsche Welle is also available. On the 7.02 MHz subcarrier there is DW in German only (also on the 6.20 subcarrier when the billboard is up), and on the 7.20 MHz subcarrier there is DW in several language services, including English not only to North America but also the programmes for Asia and Africa (thus we may hear - in "hi-fi" - all of DW's English Language programming). By means of the stereo VCR we have been recording the DWF programming from 16:00 to 17:00 UTC, which includes news and a documentary feature in English, with DW in English for Asia on the recorder's other audio channel. Yesterday, regular programming was interrupted for a special report on the little unpleasantness that occurred in Berlin. Between programmes, there are short tours of German towns (interior & exterior) and countryside. For the first few days subcarrier audio (radio only) was a bit weak with some noise, but that has been cleared up. The billboard indicates another audio service at 8.10 MHz, but that evidently is in Europe only. We gather both DWF and DW are available on a Eutelsat satellite. We knew that DWF has been available via the Intelsat K satellite, which has a footprint for eastern N.A. (potentially receivable at this QTH if we could move the Ku Band "dish" further east - assuming the 1.2 meter size isn't too small), but were really taken by surprise when it appeared on Satcom C4 (the service that was scheduled to occupy Ch. 5 on C4 was Jones Intercable's "Mind Extension University", currently on Galaxy 5.)

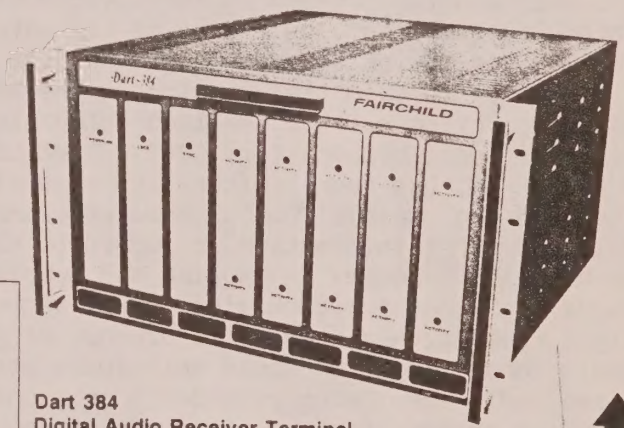
DESPITE OUR ARBOROUS SURROUNDINGS we have managed some contact with an international satellite, namely, PanAmSat 1 at 45 deg. west - the Ku Band portion thereof. Back during the summer, having heard that there were Ku Band transmissions on that satellite potentially receivable at this QTH, we located the satellite and reoriented the actuator on the Ku Band "dish" so it would go sufficiently far to the east to hit 45 deg. west. Unfortunately, at that position, the "dish" is looking directly into a large tree; thus no reception (we have the same problem with Ku Band satellites to the west of Spacenet 1.) But with the offending tree now leafless (tho' it is heavily branchèd), we decided to take another look. This time the tree was sufficiently co-operative to reveal a fairly sparkled NHK chyron (NHK has a full time transponder on this satellite, parallel the one [Ch. 22] on Satcom F2R.) We had heard that Belgrade television is on this satellite, and indeed it is, coming up for a transmission of several hours duration at 00:00 UTC (11.759 GHz H). There is a news broadcast in English at 00:05. 5.8-6.2 MHz subcarriers provide TV audio, while a 6.8 MHz subcarrier is used for Radio-Television Serbia's Belgrade 1st Programme, which has a news bulletin in English at around 03:30 UTC. The Belgrade video is NTSC. Program times are given in both EST and CET rather than GMT. Despite the weakness of the signal, it can be rendered at least watchable by reducing the ESR1250's video bandwidth to 22 MHz; subcarrier reception is best at 125 kHz bandwidth and J17 de-emphasis. (Again, using only a 1.2 meter "dish" for Ku Band reception.) Obviously a larger "dish" would yield better results, but we're sure the tree is the major difficulty (the owner of the property on which the tree stands might be amenable to its being trimmed). PanAmSat one carries 6 Ku Band transponders, 72 MHz bandwidth, TWTA power 16 watts. The transmit frequency range is 11.5 to 12 GHz, which straddles the North American and European "Ku Bands" (the former is 11.7 to 12.2 GHz). So we are unable to tune the full complement of Ku Band transponders on this satellite. Other video observed: a couple of soccer matches up sunday (one in PAL) and BrightStar London feeds today. As for SCPC activity, we have observed only one: a feed that is either the BBC WORLD SERVICE or the BBC in Spanish for Latin America. (The KU Band LNB we're using is "only" a 1.1 dB; .6-.7 dB units are now available; am waiting for a "true" .5 dB; unfortunately, for each .1 dB improvement, there is a considerable jump in price.) Also noted on PAS-1: Fuji TV's FNN WORLD UPLINK from Paris, parallel the feed on Galaxy 2.

We understand Radio Nederland use PAS 1 as a part of their satellite relay system, evidently a C Band transponder. Has anyone with PAS 1 access located RN? Would assume the transmission is analog SCPC. If not to be found on C Band, could then only be in the 11.5-11.7 Ku Band range, reception of which would require a special LNB.

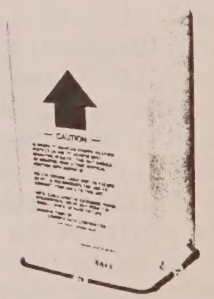
FAIRCHILD

Dart 384
Digital Audio





Dart 384
Digital Audio Receiver Terminal



Downconverter

WOULD YOU (I.E., SATELLITE RECEPTION HOBBYISTS) LIKE TO RECEIVE the digital audio transmissions of the radio networks on Satcom C5? Of course you would, but the inhibiting factor is the mulit-kilobuck cost of a device like the one above. (We recently lost "shock jock" Howard Stern to DATS - as this mode of transmission is called; beleive we may have caught the last transmission of his program via analog SCPC on G2/3 on 29/10; had been parallel the digital transmission.) The unit above, the Dart 384 Digital Audio receiver, provides for "the reception of program material boradcast via satellite using using digital techniques. It is fully compatible with the high quality digital satellite system currently in use by all digital networks plus many special and sports programs.

"The receiver electronics are supplied in two separate assemblies. The receiver mainframe...features modular plug-in construction. [It] includes the system power supply, control/demodulator module and the demultiplexer module in which the digital satellite information is decoded. The control/demod module includes crystals for all four digital transponders and front-panel transponder selection switch [an exclusive feature, say Fairchild]." The environmentally sealed (permitting outside mounting) downconverter is a special, high-stability type. "Audio program channel modules are avail-

able in dual 15 kHz, dual 7.5 kHz and 3 kHz voice/cue configurations. All audio program channel modules are frequency agile and can be remotely controlled via connectors provided on the rear of the chassis." (From a catalogue description.)

Now could a receiver be devised that would be much less expensive than a receiver such as the one above but could provide the satellite reception hobbyist access to at least some of these digital radio transmissions? There are relatively inexpensive digital audio receivers, e.g., those for the reception of digital music services now on some Cable systems, promised to be available to home TVRO. And for digital radio for the general public, from satellite or terrestrial transmitters (such systems being proposed to replace radio as we have known it), inexpensive home, automobile and portable radios will be necessaey and are, presumably, possible. But DATS transmissions probably involve complexities like differing digital formats and encryption. In any event, DATS compatible receivers in the hands of any portion of the public (be that limited to satellite reception hobbyists) is not something that networks using this technology would want, certainly not encourage. But the same has been true of analog SCPC.

THE ITN WORLD NEWS, which had been absent from a North American satellite for a while, has returned, now being radiated from Spacenet 4, Ch. 10 at 5:30 p, EST. Uplinking is still by Keystone, Los Angeles. This transponder is also used for PBS programming. ITN WORLD NEWS had last appeared on the transponder of the now defunct LAS VEGAS TELEVISION NETWORK as a part of their "British Channel".

THE BREWSTER WASHINGTON UPLINK (largest facility of its kind in the Western Hemisphere) is to provide SKY HIGH TV (Spacenet 1, Ch. 23) in conjunction with a telecommunications school for the handicapped young.

THERE IS A CHANNEL WITH RUSSIAN LANGUAGE PROGRAMMING on SBS6/12110 GHz, inverted video. Runs news, movies and other entertainment programming every evening. Call letters on the chyron are WNMB - presumably a U.S. television station (in New York?); programming evidently being distributed to other outlets. Activation of the video invert switch permits reception. Audio is at 5.41 MHz.

THE CANADIAN PARLIAMENTARY CHANNEL (Anik E2, Ch. 24) is now THE CABLE PARLIAMENTARY CHANNEL, the channel now being a service of a consortium of Canadian Cable companies, making it very similar in this respect to C-SPAN in the U.S. The Parliamentary Channel had formerly been an operation of Canada's public broadcasting entity, the CBC. Presumably got too expensive for the government, so letting George Private Enterprise do it. (Subcarriers on AE2/24 formerly CBC Stereo now unmodulated.)

NORTH AMERICA ONE, the satellite audio service that has been on Spacenet 3, Ch. 5, 6.8 MHz carrying the Sun Radio Network, is no more. That means the only satellite access to the network of Tom Valentine & company is via SCPC (Galaxy 2, Ch. 3) or FM^2 (Spacenet 3, Ch. 17, 1.06 MHz).

[13 November] Encountered a "live" feed (first 15 minutes only) of the BBC "Nine O'Clock News" on PanAmSat, 11.725 GHz (20:00 UTC, PAL). Is // the feed on Galaxy 2, Ch. 2 (NTSC).

DUNNO WHA' HAOPPEN' but today DWF have suffered episodes of complete fade out, tho' the transponder (C4/5) remains at full strength. Evidently the uplinker to C4 loses acquisition to a trans-Atlantic satellite feed (presumably via Intelsat K) - perhaps rain fade? Signal was OK by 00:00, permitting us to record the news in Eng/ ("Journal") and a documentary (Eng) on the Tempelhof Aerodrome (a previous program in the series was on the history of the Reichstag building; tomorrow there is to be "What Women Did" - about what three women criminally did in service to the Third Reich). The 16:00 hour in English is repeated at 00:00 UTC). At 01:00 the signal began to fade again. Hope this isn't going to be a recurring problem; when the pix is good it is very very good.

THE CBC'S EVENING NEWS PROGRAM "THE NATIONAL/THE JOURNAL" is no more, having been replaced by an hour of "Prime Time News", anchored by Peter Mansbridge (probably the best TV news presenter in North America). The program is on one hour earlier than the previous program in the various time zones (9:00 pm EST). Could someone confirm for us whether Barbara Frum, who was the presenter of "The Journal", has passed away? We seem to have heard that; had not been watching the CBC much in recent days.

[My current "TV sweetheart" - the statuesque Joanne Nugent of the ATLANTIC SATELLITE NETWORK (Anik E2/12.182 GHz). ASN have recently introduced a "breakfast time" program similar to the ones on the U.S. Networks; also a weekday hourly news program at 9:00 pm EST.] Speaking of the Ku Band side of AE2, we continue to recommend CJRT-FM, Toronto, to be found on subcarriers - 5.76-5,94 MHz - accompanying TV ONTARIO (12.000 GHz).

IS HBO EXPERIMENTING WITH DIGICIPHER, General Instrument's digital compression technology, expected to replace VideoCipher + in maybe a couple of years? That's what The Bourgeoisie said on LET's TALK RADIO last evening [it is now 14 Nov.]. Said this was occurring at that moment on Telstar 302, Ch. 2 (HBO/CINEMAX use Ch.'s 5, 9, 14 & 21 on this satellite; Cinemax 2 [Ch. 21] has been in "fixed key" this week). We checked, but the transmission looked to us like B-MAC. On channels we know to be transmitting digital compressed video - those on GSTAR 1 carrying National Technological University programming - there is nothing to be seen on the screen except a reduction in the noise: a blank black screen. Believe NTU are using the Compression Labs/'s system. More on this next time.

[15 November] [Thought we were through, but a bit] MORE ON DEUTSCHE WELLE FERNSEHEN: According to a block of info following today's "live" Berlin Phiharmonic broadcast, uplinking is being done by Jones Intercable's MIND EXTENSION UNIVERSITY (as we said, the service scheduled for C4/5) - if from Denver, which would be on the edge of the Intelsat K footprint, that could explain the fade outs reported (vide supra), which could be weather induced. (If we weren't Morsecodeilliterate we could determine the location of the uplink from the subcarrier bearing that information: maybe someone will do so for us.) DWF was described as being available in Europe, Russia, and North and South America with footprints for Intelsat K and Satcom C4 being shown. Today's 16:30 documentary was on artist Otto Dix.

COULD SATCOM C4 AND SIMILAR HIGH POWERED C BAND SATELLITES be too strong for your receiver? That could be a possibility with receivers that are not capable of 30 MHz or better video bandwidths. During quiet passages in the Berlin Philharmonic concert (which we were receiving using the Drake ESR 1124 receiver) we noticed a bit of crackling noise in the audio. Reducing the audio bandwidth eliminated it, but that isn't advisible with wideband subcarriers. The noise appeared to be caused by a bit of letter tearing in the small DW emblem in the upper left-hand corner. Suspecting that might indicate there was too much signal for the ESR 1124's 27 MHz video bandwidth to accomodate, we switched the output of the C Band LNB to the Drake ESR 1250 (a commercial grade receiver), which can provide a 30 MHz bandwidth (as well as 16, 22 & 25 MHz). That cleared up the letter tearing and eliminated the noise from the audio. Pristine pix, very clean audio. The signal "pinned" the 1250's tuning meter. Since most "home entertainment" satellite receivers have a video bandwidth no greater than 27 MHz (a compromise bandwidth which is satisfactory in most receiving situations), they may not adequately accomodate some of these new strong signals, especially if the receiver does not have a user accessible IF gain control. An alternative would be an attenuator, but that would degrade reception of weaker transponders.

HAVE NOTED BBC WORLD SERVICE TELEVISION NEWS on Anik E2, Chs. 20 & 19 at 7:30 am EST and on Ch. 11 at 10:30 am EST (part of CBC NEWSWORLD, carred on these CBC channels prior to regular programming).

AFRTS RADIO, which once again became available via subcarrier (Spacenet 2, Ch. 20, 7.38 MHz), and then went away, is back again on this, a subcarrier of the B-MAC encoded AFRTS TV.

[16 Nov.] Re above: Tuned in AFRTS around 14:40 UTC; some sort of computer talk show in progress; between the computer talk there were snide remarks about the forthcoming Clinton Administration, which, of course, is going to be a disaster for business. Will be interesting to see what changes in programming content on VOA and AFRTS Radio may occur under the Clinton Administration, both operations having functioned to no small degree as propaganda arms of the Reagan-Bush Administrations. Of course, with the B-MACing of AFRTS TV it it has been impossible to determine what degree of propagandizing of the troops has been occurring there.

[20 Nov.] NOTE THAT SUR, the channel carrying programming from Latin American networks on Spacenet 2, Ch. 22, have gone VideoChipher II(presumably +), audio "in the clear"; didn't realize this was a "Cable Channel". Radio France International continues on the 5.80 MHz subcarrier (wideband). This is a carryover from when SCOLA (S1/24) used this channel & carried RFI on subcarrier (as it still does on its current transponder). Except for a B-MAC channel on Morales II we know of no other Spanish language channel on a North American satellite that is "scrambled".

WE UNDERSTAND WILLIAM ("PARTLY HORSE SENSE AND PARTLY NUTS") COOPER has severed connections with the Becker Satellite Network (Spacenet 2, Ch. 7, 7.5 MHz), but is still to be heard on WWCR on Sunday evenings (Monday UTC) following Radio Newyork International. RNI still being relayed via BSN with Johnny Lightning staying on the sat for a while - where he can say "fuck fuck fuck" with reckless abandon - after leaving WWCR (JL on every other week). (Early last Monday morning he placed a call to Rush Limburger's listener response line.)

WE'VE HAD A NICE EXCHANGE OF LETTERS on satellite related topics with MIKE COOPER (GA), which we had anticipated quoting from, but having already composed too many pages for this RIB, guess that will have to wait. An article from Mike would be welcome.

PRESUME YOU CAUGHT THE FREUDIAN SLIP in the misspelling of VideoCipher 3 paragraphs above, which came out, appropriately, Videochipher. The "+" reportedly remains "secure", however.

NOTED BBC TV "NEWSNIGHT" in prog (22:50 UTC) on PanAmSat, 11.760 GHz (PAL), 6.62 audio. Lead story on BBC "9 O'C" the Winsdor Castle Fire; considered a cultural/artistic national tragedy.

23:30 UTC: Tuned in DWF for a program (auf Deutsch) on the Nazi's expulsion of Jews from Berlin, but just as it started the picture went off with only "LMS CHANNEL" - whatthehellever that means - on the screen. Picture came up shortly, but fucked up our recording; bugs us not to get a program COMPLEAT; maybe will be repeated / wanted the program for historical film footage.

[1 Dec.] A NEW AUDIO SERVICE primarily for those of the alternative sexual orientation, K-GAY, is now operating in stereo on Spacenet 3, Ch. 22, 6.3-7.4 MHz & Galaxy 5, Ch. 6, 6.3-6.48 MHz.

radio equipment forum

LOREN COX, JR 1106 CLEVELAND AVE LEXINGTON, KY 40505

LAST TIME WE REQUESTED INFORMATION - primarily needing voltages and alignment instructions - on the Hammarlund Model HQ 100(A) receiver, having come into possession of a rather badly damaged one. We recounted how it was brought back into operation, altho' in some respects it seems not quite up to par. We would like to thank BOB ZANOTTI of SWISS RADIO INTERNATIONAL ("Shortwave Merry-go-round"), who has one of these receivers, for sending us an excellent reproduction of the pages of the instruction manual that contain all of the pertinent information, including the schematic. We had managed to determine what coils and trimmers were for what band, and proceeded with alignment fairly satisfactorily, but there is a trick involving one RF coil we had not known about. We have put the receiver aside for a while, other matters requiring attending to, but will get back to it soon. Bob, if you didn't receive our letter - or whether you did or not - we would like to thank you here for your thoughtfulness; it is much appreciated.

OUR RECOMMENDED LIST OF "VINTAGE" VACUUM TUBE RECEIVERS, should you find one "mint" or eminently repairable: Hammarlund HQ 180, Hammarlund PRO 310, Hallicrafters SX 88, Hallicrafters SX 115, National NC 400, TMC GPR 90 (of which there are several versions). These are all "general coverage" receivers with a variable HFO, dual conversion (except the HQ 180 which is triple conversion), with the first IF frequency sufficiently high to insure good image rejection. Any of these make fine radios for casual listening and are not incapable of some DXing (but for the latter you're going to prefer your NRD/ICOM/DRAKE/KENWOOD). These receivers may often be found very cheap, which is why we probably recommend them over more "advanced technology" (for their time) receivers like the R-390, Collins 51S-1, 51 J series, etc., the only advantage of these receivers (which have crystal controlled first conversion oscillators and a VFO in the second conversion stage) being somewhat better frequency stability (important only for CW & SSB) and better calibration/dial accuracy. These features generally result in their commanding higher prices than the first mentioned receivers. Of the last mentioned ones, if you can find one at a nice low price, we would recommend the Collins 51 S. The long beloved and admired R-390 is just too heavy, too mechanically complex, for our taste, tho' having one would have seemed like radio paradise some 35 to 40 years ago. We omitted the venerable Hammarlund SP-600 (Super Pro) from the first list because, even if you found one cheap (a good possibility) it's just bit too much of a heavyweight (and we wonder, how did that coil turret hold up over the years?). There were, of course, "little brothers" to the Hammarlunds, Hallicrafters and Nationals mentioned above, potentially still commendable radios, especially if dual conversion (generally meaning better image rejection over single conversion designs [455 kHz IF]). Our reiterated tip in buying one of these receivers of another era: make sure all significant components (coils, transformers, bandswitch) are all good, because they are likely irreplaceable - we were fortunate in being able to find among our electronic detritus a power transformer that appears to be sufficiently close to the original in the HQ 100 - the cost of new power transformers for vacuum tube sets (to the extent they are available) has become, we would say, prohibitive. We believe we have a pretty good "handle" on almost any VT "communications receiver" you're likely to encounter, so we are more than willing to answer any questions or proffer any advice in that area. Now let us turn to:

GLEANINGS FROM THE COMPUTER BULLETIN BOARDS (first, via WILL MARTIN):

From Short Wave Listeners' List: an enquiry was made in regard to Radio Shack sales, primarily how they can be anticipated. A former RS employee, KENNETH E. HARKER responded: "I worked at Radio Shack last summer, and I never knew about the sales more than a week in advance, when the promo stuff came in via UPS. Even our manager didn't know when particular items would go on sale. However, a maxim I once heard was that everything in the store (barring the 'force feed' in the back) goes on sale at least twice a year. So, the most you will ever have to wait (assuming you read the fliers!) is about six months. The manager's specials in the flyers are just another way of saying SALE. They are the same everywhere. However, individual stores may have Managers Specials on ROS (Really Old Stuff). I remember that we once sold two oscilloscopes (I have no clue where they came from!) If you pay attention, you can get some really sweet deals at Radio Shack. (My favorite is how I got my DX440 last summer on sale at $139, with a 20% summer employee discount, making it fall around $119!)

"Just keep looking... the shack likes to keep you on your toes."

We also availed ourselves - problem of using the "editorial we", not being a "multiple personality there is only one Ic - of what was in effect a closeout on the DX440. We used to make purchases at company cost + 10% at electronics emporia where we were employed. Also could avail ourselves of

certain "get rid of this at any price" opportunities; most propitious when the company went out of the hi-fi equipment business.

ANOTHER ITEM FROM SWLL (can't determine the author; evidently a continuing discussion): "... I first replaced the wide filter [in a SONY ICF 2010] with the KIWA filter [being sold as a filter modification for the SONY 2010]. I was disappointed in two things: (1) the KIWA does not seem to be centered on 455 kHz and (2) there is a significant loss of high frequencies, especially in medium wave broadcasts where you can really hear it." [Of course; continue to be amazed by people being surprised at the loss of high frequency response when IF bandwidth is reduced. If there were such a thing as a filter with a perfect (1:1) shape factor, might not be so apparent, permitting favoring one or the other of the sidebands, since each contains all of the audio frequencies present.]

"Radio Plus+, a defunct company that used to provide better IF filters for SONY 2010s and other SW receivers apparently provided the test sheets that described the center frequency and passband characteristics of the ceramic filters they sold.

"A so-called "4 kHz" 455 kHz NEC ceramic filter was sold to replace the passband tuning filter in an ICOM IC-R70 was specified as centering around 455.2 kHz. The filter was one of three on test sheet; other things that could be gleaned was that ceramic filters are definitely not symmetrical around the center frequency. As most of these filters are destined for non-demanding applications, the manufacturer can increase the yield of their manufacturing process by easing up on the specifications. The 4 kHz filter rating was actually 5.6 kHz bandwidth; this was not really a problem in that the 9 MHz first IF filter of the R70 is specified at 6 kHz. Thus, an even wider filter would have been appropriate for the service indicated.

"You - DO - pay a penalty in decreased high frequency response, but it is worth it from the standpoint of an AM passband tuning control that - REALLY - works as intended. For example, when listening to CHU Canada in AM mode, that interfering RTTY signal on the LOwer Sideband could be knocked off such that the Upper Sideband CHU voice can be heard without interference."

MORE FROM SWLL (ERIC J. GRABOWSKI): "Here is an undocumented way of quickly switching between two frequencies in the shortwave bands [on the DX440]. The procedure requires only a single key press instead of the two presses normally required to recall frequencies previously stored in memory. Here's how to do it: 1) Press the SW key; 2) Enter the frequency of the first station. You can enter any shortwave frequency even though it is not in the band displayed; 3) Press the AM key; 4) Enter the frequency of the second station...; 5) To return to the first frequency, press the SW key; 6) To return to the second frequency, press the AM key. This shortcut lets you toggle between two shortwave stations with a single key press. Incidentally, both frequencies are retained in memory so the next time you power up the radio they are still available by simply pressing the SW or AM key."

[These items from March, 1992.]

WILL MARTIN has also sent along a review of DYMEK DR333 GENERAL COVERAGE RECEIVER (see RIB 139 - info there based on manufacturer's description & specs) from what we would consider a rather surprising source: Audio magazine (September 1992). The review is by Leonard Feldman who generally reviews high fidelity equipment. Feldman's (and Audio's) connection with Dymek products goes back to the McKay Dymek AM tuners: "their fidelity rivaled that of FM, with virtually flat audio response to 9 or 10 kHz". Those analog tuned "broadcast band" tuners were probably the only modern radio receiving devices that could rival E.H. Scott receivers of the 1930s in regard to audio fidelity. The DR333 is that black box that will not function as a radio unless it is connected to a computer. The receiver's front panel (dial and controls) appear as an image on a computer monitor screen. The video screen also provides spectrum analysis display. Feldman's tests and listening were primarily confined to the receiver's performance on Medium Wave ("broadcast band"). Maximum AM mode bandwidth was determined to 6 kHz (6 dB down?). Audio fidelity would have been better (obviously) with the optional 10 kHz IF filter. "...however, the prime purpose of the DR333 is not to provide high fidelity AM reception but to serve as a sensitive, general purpose receiver covering a wide range of frequencies [10 kHz to within 5 Hz of 30 MHz] and reception modes [AM, SSB, CW, RTTY. FAX, FSK]. Just the same, I could not resist measuring AM frequency response, using the 6 kHz bandwidth [the receiver also comes equipped with a 2.7 kHz filter; other bandwidths optional]. The minus 6 dB cut off points are at 43 Hz and 3.2 kHz,actually somewhat better than I usually get from the AM sections of of high-fidelity tuners and receivers. [Next paragraph] Dymek quotes a rather unusual sensitivity specification, using 10 dB as the criterion for S/N rather than the usual 20 dB. [The 10 dB S/N ratio figure has been standard for rating communications (SW) receiver sensitivity for many, many, years.] With that figure. sensitivity was indeed 1 uV, as claimed. However, it took some 4.5 uV to obtain 20 dB of S/N, far and away a better reading than I usually obtain. [And this is a better sensitivity figure for medium wave ("broadcast band") than is to be obtained from most of today's "general coverage" communications receivers.] Overall image rejection was 92 dB, and overall IF rejection was better that 75 dB. Harmonic distortion was under 0.5% for a test signal of 1 kHz at 30% modulation." [Evidently Feldman was not set up to measure RF dynamic range/input intercept: those very important statistics upon which receivers are to be judged and are paramount (along with selectivity) for the Ham and serious SWL.]

Feldman made use of the Dymek DA100D active (amplified) antenna tho' he could use it only at ground level. He reported reception of all New York metropolitan area stations in the daytime, and nighttime reception of stations as far away as Chicago (gasp!) - this sounds like a a radio review from the early 1930s. "The 6-kHz bandwidth setting, although not ideal for music, made for very intelligible reception of speech programming, especially when I tuned to overseas channels..." The DR333 does not provide for synchronous detection of AM mode transmissions, but we think it likely that it incoportats the low distortion envelope detector used in the earlier McKay Dymek receivers.

Feldman's only criticism of the receiver was in the area of computer software, which "did not measure up to the receiver's own performance or to the graphic elegance and ease of use one expects from computer software today." (Was not originally mouseable, but revised software provides for that mode of operation.) Feldman feels that the $1,500 price tag is a bit steep - "However, those skilled in the art of amateur radio and other applications for which this receiver is intended usually feel the same way about stereo equipment we audiophiles consider reasonably priced."

TIM HENDEL (FL): "I had a chance to see the DX-390, and would like to report on something which I have not heard mentioned in any reviews which I have come across so far.

"As is well known, the Radio Shack DX-390 is like the Sangean ATS-818CS, without the cassette recorder. As has been stated, the speaker grille is larger, though I couldn't tell if the speaker inside was larger; audio seemed about the same.

"Here is the difference I noted. The tuning knob on the right hand side of the ATS-818CS has little detents, or soft clicks at each frequency increment. If you are blind, or just don't care to look at the display, it is very easy to count the detents as you tune the knob. On the DX-390 the knob turns without detents, as on the Sony 2010, so you can't count steps. Furthermore, the radio does not "chuff" but rather goes silent when the knob is turned rapidly.

It's a shame that Radio Shack sometimes sees fit to make meaningless little changes to the clone radios they sell. They did the same with the DX-440, removing a couple of jacks which were on the original Sangean ATS-803A."

MORE BBS OUTPUT (via LARRY NEBRON): MICHAEL SCHUSTER ON THE GE SUPERRADIO III: "The GE SuperRadio is now shipping.

"The SRIII is essentially the same physical box as the SRII reworked so as to be asthetically pleasing to those who thought the SRII was ugly. Everything looks rounded off. The only change to the layout is an additional switch for AM wide/normal selectivity. The innards are probably very much the same as in the SRII.

"I wish they had included a momentary-on dial light switch, but....

"I haven't bought a unit. What follows is all from the GE spec-sheets. It remains to be seen whether there will still be a demand for after-market filter modifiactions.

"As with the SRII, the SRIII is available from Bennet Bros. for only $36.88 + S&H. They expect to be caught up on the back orders by mid-September. The Chicago number is 1-800-621-2626. NJ is 1-800-631-3838."

[The spec sheet proclaims that the 'GE SUPERRADIO III High Performance AM/FM Radio' is 'Designed for maximum reception and sound performance'. Significant specs:

AUDIO: 700 mw RMS output driving 6½" 'high sensitivity' woofer & 2" cone tweeter; has seperate rotary bass & treble controls + a 'built-in loudness control in the volume control to automatically boost bass response at low volume levels... (i.e., an automatic bass boost).

SENSITIVITY: no figures but we are led to believe that it is good because there are tuned RF stages on both AM & FM; tuning via variactor diodes; 38" swivel whip antenna; 7 7/8" ferrite rod antenna (should provide a lot of "AM band" pick up); external AM/FM antenna terminals; extended frequency range on AM over SRII (evidently covers expanded - to 1700 kHz - "AM band"

SELECTIVITY (no figures provided): 4 IF tuned circuits on AM; switchable AM bandwidth for maximum selectivity of adjacent stations (normal) or improved audio response of strong signal stations (wide) - on FM range has ceramic IF filterplus 3 IF tuned circuits (note only L/C filtering on AM).

OTHER FEATURES: Vernier tuning - evidently "spinner" type tuning knob; AFC (defeatable) on FM; logging scale; headphone jack, etc. - mostly cosmetic/ergonomic matters, differences from SRII.

Like Mr Schuster we would also like a report from someone using the SRIII.

Comments re the spec highlights above are lc's.]

RE THE SONY ICF-SW77 "MESS": a BBS item from KRIS CENA: "I have contacted several contributors to this net and the following picture has emerged so far:

"1. The 'old' Sony ICF-SW77 has [a] NINE segment whip antenna and a serial number in the order of 30 000. 2. The 'new' unit has [an] ELEVEN segment whip and a serial number in the order of 900 000. The antenna is 34 and 44 inches long, respectively. In the US and in Germany the local Sony distributors put a dot on the labels (those on the box) to mark the 'new' model. The type and colour of the Sony sticker placed on the speaker appears to be unimportant, although gold stickers apparently indicate the 'new' model.

"In places like [the] Far East, Australia and New Zealand (and perhaps others as well, please advise) SONY is dumping the 'old' model, even making a fuss by 'introducing' or 'releasing' it to the

markets. The local dealers, even the local Sony offices, are completely unaware of the problem, never heard about the model being withdrawn from marketing a long time ago and consequently are unable to advise customers." (via NEBRON)

ACCORDING TO LYLE TAYLOR (via GEORGE THURMAN), there is a Radio Shack outlet "that gives GREAT discounts" (e.g., the PRO-43 scanner, list $349.95, discounted to $275, including S&H, and, of course, no sales tax on out-of-state orders. Discounts from the RS catalogue run between 15% to 30%. "No orders under $50." And what is this amazing concern? Radio Shack, 22511 Katy Freeway, Katy, TX 77450. (How can they do it? How can other RS stores in the area - assuming there are any - bear the competetion? Do RS leave their outlets to price as they please? Would not have thought so, but not familiar with their franchising arrangements.)

A REVIEW OF THE LOWE HF-150 by ROBERT ALLEN (from BBS via LARRY NEBRON):

After much agonizing, and evaluating models ranging from the NRD-525 to the SW55, I decided on the HF150 for my personal needs. Its ruggedness, full freq. range, portability and sync support tilted the scales in the direction of the HF150. Currently I use it at home with a longwire, and I'm in the process of building an antenna tuner kit for it. I think an antenna tuner might be useful with it to reduce strong channel interference, although you could just use the built-in attenuator [we've gotten excellent results with an antenna tuner; considerably enhances the performance of the DX440 - lc].

...The deciding factor for me was the selectable sideband AM sync [synchronous detector] being standard on the 150, with only DSB AM sync being available (as an option) for the 225. The additional memories (60 instead of 30) which store frequency and mode were also attractive, although I've since determined that the number of frequencies doesn't seem as important on a HF radio as it is on [VHF]/UHF.

Overall I'm very pleased with the 150. So far I've listened to pirate radio, US military aircraft, plus worldband broadcasters. One feature I'm particularly UNimpressed with is the keypad, which I purcahsed as an option, It cost me $80.00 U.S., and I doubt if the components cost more than $10.00. It's made of a black project box which I can purchase locally, a cheap telephone keypad, and a cheap mini connector.

(NOTE: I've since purchased the service manual, at $40.00 U.S., and it has the circuit diagram for the keypad and the "RS232" interface, which uses the keypad input. I'll probably try to build the RS232 controller, or build a full feature keypad, at some point.)

The keypad cannot store a frequency in memory, nor can it change the mode of the radio. It is required however to get frequency to frequency or memory to memory quickly. The keypad doesn't even have the Lowe name on it, They should include the keypad with the radio so people won't know that it's overpriced. [Don't quite follow the logic of this.]

The HF-225 is still attractive to me, but I think I'll wait until the new model comes out before I consider buying it. Overall, I'm impressed enough with Lowe that I'll certainly look at their offerings first if I ever buy another HF radio. Now to get set up for FAX and RTTY reception.

BASICS: freq range is 30 kHz to 30 MHz. Two filters are provided, a 7 Khz one (used on AM), and a 2.5 kHz one used for SSB, and AM narrow. Selectable sideband AM sync. is supported.

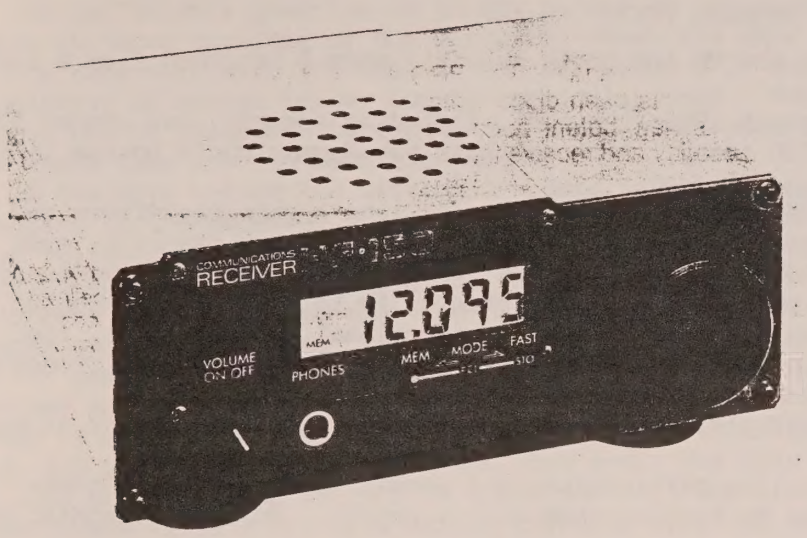
CONSTRUCTION: The top ans sides are one piece, bent aluminium construction. The front and back panels are also aluminium, about 1/8" thick. The internal speaker projects sound from the top of the receiver, from behind a grille of drilled holes. Aside from coffee or water. which the manual specifically warns against, the speaker is well protected and sounds great. The front panel has an on/off/volume dial, a dimpled tuning dial, 3 buttons, and audio preview of memories [??]. My next step is to get a FAX and RTTY decoder, which I think will do very well with this radio, although tuning w/ 1 kHz display resolution will be tedious... I hear [that Lowe] will be bringing out a new [receiver] this year, but it will be a couple of grand.

I like the Lowe a lot. The only HF radio I've used much was the Sony SW-55. I prefer the Lowe, but a large part of that could be the audio. I now have an MFJ tunable preselector between my antenna and the Lowe: I think it may make a difference in the lower parts of the HF spectrum, but it's hard to call. I do wish the Lowe AM filter was closer to 6 kHz than the 7 it is, but I'm not having much problem with intermod. So far I've spent most of my time listening to BBC, Radio Netherland, and military traffic associated with Offut Airbase in Nebraska (I'm in CA)

I'd still like to have an NRD-525, but for me the Lowe is a lot more practical, and I think it has plenty of reception ability to keep me happy. I'd recommend it over the HF-225, since the 150 comes with AM Sync, plus sync., selectable sideband, as standard, and the sideband sync. isn't available on the 225 at all.

If you could have only one HF radio, I think the LOwe is it. It's better quality that a portable, but is portable, and is approximately equal [in performance] to tabletop models for less money, less size, and only a bit more ergonomic hassles.

[In summation, the reviewer provides a listing of "150 pros" and "150 cons";]



YOU'VE LIKELY SEEN IT PICTURED WITH THE CANDY BAR ATOP TO INTICATE WHAT A SMALL PACKAGE FOR SO MUCH RADIO IT IS (APPROX 7"x7"x3"). AS FOR MFR'S CLAIMED SPECS: SSB SENSITIVITY WITH PREAMP ENABLED: .2 uV ABOVE .5 MHZ (.5 uV PREAMP OFF); SELECTIVITY: 2.5 KHZ OR 7.0 KHZ AT -6 DB; STABILITY (TYPICAL): NO GREATER THAN 30 HZ PER HOUR.

This receiver was declared by The Man Who Knows - and we don't mean Robt. H. Best of Radio Berlin, but rather Mr Magne - to be "A Real Winner!" (see the review in Monitoring Times, Aug. '92), He gives it good marks in nearly all respects, rating its performance between that of portables and the best communications receivers - performance actually being close to the latter. Tho' of portable dimensions, it's much superior to a "portable". Sensitivity and RF dynamic range are described as being "above average", but front-end selectivity is only "fair". So a device - preselector, antenna tuner - running ahead of the receiver that would sharpen up that front end response would seem to be a good idea.

Guess it's obvious what "audio preview" means but we just don't get it.

PROS:
*Built in preamp and attenuator
*12VDC operation; external or from 8 AA batteries
*Built in charger for use with AA Nicads
*SO-239 & spring clip ant. terminals
*60 memories for mode & freq.
*Extreme ruggedness, + light weight
*¼" headphone jack works with mono or stereo phones
*Rear panel outputs for audio out, record out
*Sound is very good
*1 kHz shift button allows you to tune around quickly

CONS:
*5 digit [to kHz] freq. resolution instead of 6
*LCD isn't backlit
*Optional keypad is overpriced; does not allow accessing/changing mode
*Mode not simultaneously displayed with freq.; one or the other
*Keypad, $90.00; overpriced but almost a must have...
*No audio preview of memories without without transferring mem. to VFO. Cuing memory channels with tuning knob requires deft touch. [Your ignorant columnist still doesn't know what "audio preview" means - a synthesized voice?)]
*Preamp/atten switch on back rather than front
*This is AM only; no broadcast FM support. I don't consider this a problem however.
*No S meter

ALLEN J. MUI (NY) has sent along a Heathkit catalogue (1977) page devoted to the HR-1680 "High-performance solid-state SSB/CW receiver" (suggested by our recent discussion of some Heath receivers). A rather sophisticated receiver to be sold as a construction project, the HR-1680 was an Amateur band only unit, covering the HF Amateur bands of the time in 500 kHz segments. Of pre-frequency synthesizer design, it was of the design first introduced by Collins in 1946: crystal controlled first conversion oscillator and a mechanically tuned VFO: a very reliable configuration, but by and large limited to Amateur band only receivers: the more 500 kHz or 1 MHz wide frequency ranges covered, the more first conversion oscillator crystals required. Most receivers of this type were vacuum tube, but there were some solid state versions (like the 1680) before the synthesized HFO became predominant. Frequency synthesis made it no more of a design problem to make a "general coverage" receiver with high stability and Ham required features than to make an Amateur band only receiver: thus we see "general coverage" receivers in virtually all of today's Ham transceivers.

LOOKING BACK THROUGH READERS' CORRESPONDENCE forwarded to us by gh we note that we have failed to acknowledge, make use of, some equipment related remarks, e.g., those of JOHN CAIRNS JR. (VA) and DIANE MAUER (WI) - unless we have used them and failed so to indicate. We are so unorganized. And can't bear to look back through our previous columns. So will begin with what we may have overlooked next time. And instead of so much BBS material (which we nonetheless appreciate) we would like more direct reader input (reviews, equipment mods, items on "vintage" receivers, questions, etc. NOTE: we seem still to be having trouble with mail delivery at this QTH (mentioned some time ago), so if you've written and haven't gotten acknowledgement via personal communication and/or the column, your communication didn't arrive.

THANKS TO BENN KOBB (DC) for FCC documenta on satellite digital audio radio services (DARS) and encryption technology for "Satellite Cable Programming" - that silly mess. Will a Clinton Adm. FCC do a better job?

MORE ON THE HQ 100: A letter from RALPH BRUNSON (TX):

I did not get to read your comments on the HQ 100 until recently when I returned from a long trip, hence my belated reply.

I bought my HQ 100 from Allied Radio about 1960; the cost, including speaker, was around $225, which would be the equivalent of maybe $1750 today. Although this was Hammarlund's bottom line receiver, it was not cheap!

The machine has seen daily service, and is untouched except for line bypass capacitors and a filter capacitor. Try that on any receiver on the market today. It remains my favorite, even though I have three other receivers, including a FRG7700. The flawless audio easily compensates for the few drawbacks, particularly since nearly all of my listening is to German- and Spanish-language broadcasts on less-than-perfect ears. I like having a functional noise blanker, too.

I still have the original manual, which contains a complete schematic and alignment procedures, as well as tube-socket voltages and resistances. Let me know if you still need copies.

1. Selectivity: The Q-multiplyer should strip the sidebands entirely off the carrier at maximum, so you should have no problem here.

2. Stability: These things were built like battleships, and should be mechanically rock-steady. Try checking for microphonic tubes by tapping them with a pencil. But that fiendish drift will be there forever.

3. S-meter: S9 + 20 is about the max my machine has ever shown, but I normally keep the RF gain control reduced anyway.

4. Images: There should be no images on any of the SW [broadcast] bands, and none at all on BCB [medium wave]. Proper alignment should take care of this problem.

5. SSB: That section of my power switch was vaporized by a lightning strike (otherwise the HQ 100 was OK, which is more than you could have said for me), so it has been a while since I have used SSB. The Q-multiplier must be on in order to activate SSB.

The real beauty of the HQ 100 lies in the velevty silence achieved by backing off the RF gain control and listening to strong relays of DW, BBC, or RFI. The RF gain control on my other receivers merely reduces the signal while noise remains constant. I often wonder why no one produces a modern receiver with tube type RF and IF sections, at least.....

Ralph offered requested info on the '100, but Mr Zanotti has already provided (vide supra).

Even as late as 1960 (that year seems closer to me than it does to many of you) $225 was not an inconsiderable sum to spend for a radio, tho' we parted with $294 for a HQ 150 in 1955. Believe the '100 originally came on the market at $169 (sans clock). Had we waited a bit longer that is probably what we would have purchased. Our Allied catalogues indicate that the '100 was on the market from 1956-1960 and the HQ 100A from 1961-1964 with an initial price of $189 (sans clock). As previously mentioned, the difference between the '100 and the '100A is the incorporation of a BFO tube/-circuit in the latter while retaining the Q-multiplier; in the '100 the Q-multiplier became the BFO by forcing it into an oscillating state ("Selectivity" coltrol at max). The switch Ralph is referring to is a 4 position wafer type (apparently of special make, so a replacement will be hard to find) which provides: power off/receive (power on)/send (stand by)/Q-mult. On the 100A the same switch is used, but the 4th position is "BFO". The Q-multiplier is activated by means of an on/off switch on the selectivity pot.

The Q-multiplier (invented by Mr O.G. [Mike] Villard) provides good selectivity characteristics but does not have the "shape factor" provided by mechanical and some other types of filters used today: the result is that a very strong station can heterodyne a bit with a weaker, adjacent, one. The Q-M used in the HQ100s is a peak only type; more elaborate Q-Ms, as in the HQ 150, provide both peak & null. (The '150 also incorporated the conventional multi-position-selectivity crystal filter with phasing control; using the Q-M in conjunction with the CF provided a Boolean expansion of selectivity possibilities: never computed them all).

Best S-meter readings we can get about S9 + 10, tho' the receiver offers good sensitivity (as is the norm with receivers of this type, sensitivity/gain drops off on the higher frequencies). In a noise free location, the '100 should be very good for tropical band reception.

Like Ralph, we encounter no serious image problems with this receiver on bands of most interest to the SW broadcast listener (a bit of an exception might be 13 m on occasion).

In regard to CW/SSB, we find that the best results are obtained in this manner: AVC off, Q-M set to just below point of oscillation, audio gain at max with RF gain used for volume control (BFO on, of course). This applies to the HQ 100A; everything would be the same for the '100 expect the Q-M would be in the oscillating state.

Of course, again, the receiver's overall "listenability" (audio quality) and easy bandscanning with its smooth non-backlash tuning mechanism - OK, the "in the ballpark" dial calibration may not be good enough for you - are the receiver's chief virtues (and I can't but admire that cast aluminum front panel). It has been our experience that selective fading distortion just isn't as bothersome on VT receivers as it is on solid-state receivers (i.e., unless a form of heterodyne detection is being used, when possible, with the latter).

As for Ralph's question as to why no one is producing a "hybred" receiver (i.e. with vacuum tubes in those portions of the circuitry where VTs show to the best advantage): the Drake R4B was such a receiver, with VTs used in the RF, mixer & IF stages. Factors, presumably, would be cost and complexity of design (power supply considerations). Nonetheless, we would like to see a receiver making use of frequency synthesis and those other good things today's receivers provide with a few VTs where they are the most effective.

A few days before the writing of these last two pages a bit of soldering iron manipulation by RC resulted in the receiver voltages being fairly close to those given in the instruction manual tho' bias voltages are a bit low (by about 1 volt). It was a stroke of luck to have found a power xfmr sufficiently close to the original incinerated one to have made this possible. We then undertook alignment which revealed that the first uninstructed attempt came out quite close. The receiver tracks quite well, being "right on" at all points on the first 3 bands. On band 4 (10-30 MHz), it is not possible to meet the dial markings for the mid portion of the band while being "on" at the extreme ends where alignment adjustments are made. 10 to 30 MHz is quite a swath of spectrum over which to maintain close tracking. RF alignment is as per usual, peaking coils for max at the low end, and peaking RF trimmers at the high end. The only deviation from this involves the adjustment at 1.65 MHz where one RF coil is tuned for null and the other in the same can is tuned for peak. There seems to be a bit of a "trick circuit" involved here. The coil tuned for null, which I had thought was a coil tuned for peak at the low end of the "broadcast band" (but would do nothing at 600 kHz), is used to provide voltage to the RF amplifier tube regardless of the band in use. Tuning it for null did improve somewhat medium wave performance, but that band is still a bit below par by our standards, lacking the usual RF coil & trimmer. We believe Hammarlund could have done better. Also, in their later receivers, Hammarlund went to cheapo K-Tran type IF transformers in both low end and higher priced units.

But we have gone on at greater length than this subject likely merits. But a relatively modest receiver of the past is surely as interesting as, say, a Pomtrex or another of today's klunkers that gets reviewed. As for a contemporary expert appraisal of the HQ 100/A, FRED OSTERMAN in his Shortwave Receivers Past and Present gives it a rating of "4/2", the first numeral (which is on a scale of 1 to 5) meaning that the radio when it was on the market was "Very good, above average value in [its] price range", while the second numeral (also on a scale of 1 to 5) indicates that, at a suggested used equipment price of $85 for a functioning unit, the receiver is "Below average value in [its] price range": Probably true, but we would consider it more of a "fun" radio than some contemporary device one might acquire for around that price. But the badly damaged receiver we acquired cost nothing and the only item purchased for the refurbishing it was a can of spray paint. We would say, if you find an HQ 100 or similar receiver from National or Hallicrafters in good working order for around $35 it's probably worth it, and surely provides an inexpensive entree to shortwave listening (better serving the inexperienced SWL that a Chinese import portable which is only likely to discourage him/her); and if you're an experienced SWL some relaxing VT sound can be nice between bouts of digging out elusive Peruvians on your NRD whoopsedo.

[NOTE: Mr Osterman's book, most useful in surveying the used receiver market, is available from UNIVERSAL RADIO INC., 6830 Americana Parkway, Reynoldsburg, OH 43068; price $8.95. Another useful book by the same author would be Buying a Used Shortwave Receiver, available from Universal for $3.95. As of this writing Universal's excellent catalogue, 92-08, is available, likely at no cost if you say you saw it mentioned here: might depend on the category of mail delivery you want.]

"WHAT'S GOING ON HERE", your columnist said to himself when, checking out the "broadcast band" while aligning the HQ 100, he found the station in Cincinnati on 550 kHz IDENTIFYING ITSELF AS WLW! (had always been WKRC). Had the announcer forgotten which station he was working at? (have heard announcers do that). Going up to 700 kHz we found WLW still there as it has been for, we guess, some 70 years: and still the WLW ID being given. So we went back to 550 and listened some more. There were further repetetions of the WLW ID, so we hadn't heard a confused announcer. The only conclusion is that WLW and the former WKRC now have the same ownership (recent FCC rulings now permit a broadcasting entity to own more than one AM outlet or more than one FM outlet in the same market - a total reversal of long standing policy), but both stations using the same call letters? That's a new one on us. Is this occurring in any other market? WLW 550 and WLW 700 both appear to have mostly talk formats, the latter evidently with the emphasis on sports.

Actually, WLW having a companion station (tho' not with the same call letters) is not new. Back in the 1930s and into the 1940s the Crosley Broadcasting Coropration was permitted to own and operate two AM stations in the Cincinnati market, the 50/500 kw. WLW and the 5 kw. WSAI, respectively "The Nation's Station" and "Cincinnati's Own Station". WLW/WSAI had common announcing staffs but did no simulcasting except for an occasional baseball game. Haven't listened to the two WLWs enough to know if they have common staffs or do any simulcasting. Would that be permitted under this new FCC policy? - not that familiar with its provisions, but it reflects the Reagan-Bush love of monopoly capitalism - the concentration of ownerships and resources into fewer and fewer hands. / Maybe the economics of AM radio have become such that multi-outlets are possible in at least some markets only by means of a common ownership of them? Bad, if true.

ADDENDA & CORRIGENDA to 1c utterances in this issue: [1/1/93] More on the WLW story. The WLW at 550 kHz, which identifies/promotes itself as 550WLW, has the offical (FCC designated) call WLWA, which is given only on the hour. With radio stations these days, for promotional purposes, calling themselves, in terms of letters and numbers, about anything they please ("Q-100", "K-ROCK", etc.), it is difficult for the logger/DXer to know exactly what station, in terms of the governmentally sanctioned identification (call), he is actually listening to: the only chance to find out is to listen closely on the hour, when the call may quickly be given. Now the former WKRC in Cincinnati, now WLWA, is not the first radio station owned by the owners of WLW (700) - currently Jacor Communications - to have the call WLWA. For one of the Crosley Broadcasting Corporation's shortwave transmitters at Bethany (near Cincinnati) bore the call WLWA (the SW transmitter complex was generally known as WLWO, which identified only one of the transmitters). Actually Jacor, at the present time, don't formally own WLWA, but are operating the smaller (5 kw.) station by means of a leasing type of arrangement with what was WKRC owner Great American Communications Corp., Jacor retaining an option to buy the station at some point in the future.

The FCC now permits a single concern to operate more than one AM or FM station (e.g., 2 AMs/2 FMs) in the same market if the total audience of the stations does not exceed 25% of that market's audience. (Persumably if the stations become so successful that that 25% number is exceeded, then the owning/operating concern must divest itself of one of the stations?)*

Have oberved some WLW (which calls itself 700WLW) and WLWA simulcasting of talk shows, but with what seems a rather long delay: could tune from WLWA to WLW and catch words that had just been spoken on WLWA. The WLWA and WLW studios are now about 2 miles apart. Both stations are expected to be operating from WLW's studios in historic/picturesque Mt. Adams early this year. (The great WLW of the 1930s, with a large auditorium studio, was on Arlington Street.)§

*Jacor also own & operate Cincinnati FM stations WAQZ-FM & WEBN-FM (which came on the air as "the folk-raga-rock-psychedelic-electronic sound" back in the 1970s). The combined audience, according to the latest Arbitron ratings, for all of Jacor's Cincinnati radio operations is 24.8%.

The combining of WKRC & WLW give Jacor the two most important radio sports packages in the Cincinnati market: the Bengal's games (which will continue to be found at 550) and the Reds games (which will continue to be on 700).

[Some info for the above from an article by Tom Carter in the Lexington Herald-Leader, 27/12/92.]

§The Arlington Street studio was indundated during the great Ohio River flood of 1937. Are there any extant recordings of Peter Grant's news broadcasts from the temporary attic studio? (lit, as we remember him describing it, by "a single dim lightbulb").

WHY BBC WORLD SERVICE TELEVISION is not to be seen in North America (unless one has Intelsat access): According to the BBCWS's John Tusa on the BBCWS call-in program, "This is your BBCWS", BBCWS-TV cannot be made available in N.A. until a business partner to handle financing/marketing can be found. That means, if BBCWS-TV ever becomes available, it will only be on some form of "pay TV". (Who's paying for RTP Lisbon to be up 24 hours per day "in the clear" on Spacenet 2, Ch. 24 or the intended for North America nightly transmission of RTS Belgrade "in the clear" on PAS 1, 11760 MHz?)

A SATELLITE WE WILL NO LONGER BE WATCHING will be Spacenet 1 (120 deg. W) which has been purchased by the Chinese who will relocate the satellite to a slot at 115 deg. E. That, at least temporarily, will leave a lonesome place in the sky between Telstar 303 & Morelos 2. The fulltime user of S1 of the most interest, SCOLA, has moved to ASC 1 (128 deg. W), Ch. 23. Other machines in the GTE fleet are understood to be for sale.

K-GAY (vide supra) have left S3/22 for Galaxy 6, Ch. 17, 8.325 (or thereabouts - a wide deviation subcarrier, so a bit difficult to determine exact center of carrier). A news and information audio service, RADIO GENESIS, is also on this transponder at 7.5 MHz (wideband). Tune in at 11:00 pm EST Sundays for the UFO show ("Paranet UFO Continuum"). Other programs - some call-in - on diverse subjects. Also carries "WNN Headline [continuous] News" (a lot of business news) when other programming not up. If you'd like to have your own program on RG, their rate is $66 per hour. For more info, call (303)987-1211. RADIO GENESIS INTERNATIONAL.

K-HET, a channel devoted to celebrating that old-fashioned, unimaginative, intellectualy disfavored form of human intimacy, penisinvagina intercourse, is looking for sponsors and a transponder. Will be a missionary (position) broadcaster. Will be lambasted by liberals for daring to proclaim that one form of sexual expression is better (for demonstrable reasons) than another. The station's message for Gays will be, "Vase contra naturum".

AS DECREED BY THAT STRANGE BODY IN THE CANADIAN GOVERNMENT, the CRTC, the GLOBAL NETWORK has been required to scramble its satellite feed (Anik E2/Ch. 12). This is reportedly because the programming is not to be seen beyond the province of Ontario.

NOW it's really got to be 30 /

DX LISTENING DIGEST Here's some of what you missed in Issue 38--now out of print--if you're not a subscriber to RIB's companion magazine-- more than 10 pages of the latest DX news by country from gh. HF Amateur Radio Voices Nets & Bulletins, by time; Selected English Language DX/SWL/Media Programs, by day and time; Broadcasts in English audible in North America, by time with reception quality ratings--all compiled and updated to the last minute by John Norfolk. Reproductions of complete frequency and/or program schedules from CSM WS, WEWN, Budapest, Romania, Moscow World, New Zealand, CBC Northern Quebec; 7-page special discussion of propagation. Schedule sections may appear either in RIB or DXLD, depending on timing, availability and which magazine is due out next! RIB arrive too seldom ? You really need both. They're a bargain per year, as the 10-issue term you pay for is likely to last at least two years at the current rate of publication ! Details on back cover.

MUSICAL MONITORING (Allan Garshowitz, Ont & BC) Among exceptional music stations on SW, I find myself frequently enraptured by Mexico's Radio Educación, 6185; especially one night when they were doing live big band music from some ballroom, which after a time they left to play big band records for over an hour more. The station is a frequent source of Latin jazz. If they have a schedule for all this it might well be worth hagiographic recognition, especially from the lonely all-night listener. African music in the morning is exceptionally fine on Africa No. 1, Gabon, on 17630 from 1500, and on Channel Africa, South Africa, 15430, approximately the same time. Similarly, there is excellent Indian music from All India Radio on 11620 (and occasionally when strong enough on 15185), which alternates hours of English and Hindi, switching I think at a quarter to the hour. For those who have a taste for it, 15345 regularly has Arabic music from Saudi Arabia (but one might have to develop the affection for it. If one does, there is always the United Arab Emirates also on 15305, both around 1800-1830 et seq.). I'm sure you can already taste the falafels. BTW, AIR News Jan. 11 at 1900 totally ignored the story on CBC and BBC about Bombay under seige and 10 million people fleeing in a panic! gh: That seems to be AIR policy about domestic disturbances.

D X D A I L Y -- A Q U A N T U M - L E A P I N S W L I S T E N E R S E R V I C E

We're going for it--in the hope that you will help us continue. We've long been frustrated by having to delay hot news for a once-a-week broadcast, and by having two or three times as much good information as time allows. It's about time there were a daily (well, weeknightly) DX broadcast--this is the way to spread the news without delay. However, this will be time-consuming for gh, and since we depend on miscellaneous SW-related income rather than a 'real job', DX DAILY must be commercially viable. Unlike WORLD OF RADIO, airtime must be purchased, commercial spots sold, and donations received from the listeners who benefit from it. Two major sponsors have committed to a 4-week trial period throughout February, plus others on a smaller scale, and more are needed! A number of individuals have already responded to our pleas for donations. If DX DAILY is useful to you, your financial support is still needed. At presstime, we'll be lucky to break even for the February experiment; toward the end of it, we must evaluate whether the show is generating enough income to justify renewing it. It's up to you. Having the hot news on DXD should allow WORLD OF RADIO to get into less time-value background and feature material which is always getting bumped by the pressure of news. Each DX DAILY will be aired only once, so it's important to get into the habit of tuning in or taping every weeknight (if there's a blackout, some items will be repeated on later editions, or WOR). It is equally important that you patronize our sponsors and make sure they know you heard their ad on DX DAILY! Major sponsors are GROVE ENTERPRISES / MONITORING TIMES, 1-800-438-8155, and UNIVERSAL RADIO, 1-800-431-3939. Grove, Box 98, Brasstown NC 28902. Universal, 6830 Americana Parkway, Reynoldsburg 43068.

DX DAILY, 15 minutes, Mon.-Fri. 11 pm EST, 10 CST, 9 MST, 8 PST on Radio Miami International, 7395

That's via WRNO, UTC Tue.-Sat. 0400-0415. If a timeslot becomes available in future months during a somewhat earlier hour, we may move there. This is the earliest time currently available. From Feb. 1

Please make donations payable to Glenn Hauser, and send to Box 1684, Enid, OK 73702 USA -- A few people sending larger donations will assure success more quickly; or a lot of people sending smaller donations, such as $5 or $10 a month. Optional form for your convenience --

Here's $ ____ for the February startup period. $ _____ for costs in subsequent months (refundable if program not continued)

You can depend on me to contribute $ _____ per month for DX DAILY in the future without reminders.

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WORLD OF RADIO Monitor our weekly listener-supported public service program--on WWCR Nashville TN, Fri 2215 UTC on 15685, UTC Sun 0405 on 7435, 0800 on 12160, Mon 0000 on 7435, Tue 1230 on 15685. On WRNO New Orleans LA Sat 2300 & UTC Sun 0300 on 7355, 2130 (sometimes 2030 or 2000) on 15420. On RFPI Costa Rica Sun 23, Mon 07, Tue 19, Wed 03, 11, Fri 20, Sat 04, 12, 18, Sun 02, 10 on 7375, 7385, 13630, 15030. On WNQM Nashville Sat 12:25 am CT; WHUS 91.7 Storrs CT Fri 10:30 am ET; WPKN 89.5 Bridgeport CT Sat 2:30 pm ET; WSUI 910 Iowa City IA Sat 10:30 pm CT. Times vary on WRNO, RFPI. UTC times shift one hour earlier April 4 on WWCR, WRNO. Also may be on Let's Talk Radio, Spacenet 3, Tr. 21, 5.8 MHz wideband audio, Fri. 2230 UTC, UTC Tue 0130. GH's Spanish DX reports on RN's RADIO ENLACE 1st & 2nd Fris=UTC Sat including 0005 on 15315, 0305 on 15315, 6165, 0505 on 9590, 6165. DX DAILY, p. 39

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